BIRTH AND DEATH STATISTICS
BY HEALTH UNITS OF ALBERTA
1988

Health Economics & Statistics Branch
Alberta Health

April, 1990

90-05392/

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GENERAL FRAMEWORK

This is the sixth annual report dealing with natality and mortality patterns in Alberta, observed at the health unit level. This volume contains birth, infant mortality and death statistics and related indices for the year 1988 for Alberta, disaggregated by the 27 Health Units, to the extent that this is possible from Vital Statistics data. All the birth and death statistics used in the preparation of this report originated with Alberta Vital Statistics. It is hoped this information will prove useful to those involved in planning at both the health unit and provincial levels. The report is divided into four chapters, dealing with births, stillbirths and infant mortality, deaths in the male population, and deaths in the female population, respectively.

By considering births and deaths on a health unit basis, this report acknowledges the differences that exist from one area of the province to another. It is not always possible to offer an explanation as to why such variation exists, and no attempt has been made in this volume to provide one. Any explanation would need to be based on a comprehensive understanding of the various demographic and socio-economic characteristics of the health units and this knowledge is most readily available at the community level.

In data format this report closely resembles the fifth report published in October 1988(1). The emphasis is on natality and mortality of individual health units as observed in 1988.

The point of view has been adopted that the situation for Alberta is mainly relevant in so far as it provides a convenient standard for gauging patterns in this province. To that end, all age-standardized rates in the report have been standardized on the Alberta population in 1988.

As each new demographic indicator is introduced it is accompanied by the corresponding background material or mathematical formula. Appendices A and B give the details of the demographic method used.

CHAPTER CONTENTS

Each chapter begins with a description of the relevant population according to age group, and follows with a series of tables and figures dealing with either births or deaths. The latter are organized according to a definite format. Within each chapter, pages are numbered consecutively. Tables and figures will be identified by referring to the corresponding page number.

BIRTH AND DEATH STATISTICS

A proper interpretation of the tables and figures in the pages that follow requires an understanding of some of the features of the Alberta Vital Statistics registration and reporting system. As each birth or death is registered, Alberta Vital Statistics assigns the vital event to a health unit on the basis of the registrant's place of usual residence, provided, of course, that the individual involved is an Albertan. This may or may not be the health unit where the vital event took place.

Alberta Vital Statistics also registers births and deaths involving residents of other provinces and countries, but these will not be considered here. By the same token, if a resident of Alberta gives birth or dies while outside this province, the registration will not be known to Alberta Vital Statistics. This results in a small degree of undercounting of vital events involving Albertans; however this shortfall is not large (approximately 376 births (1%) and 319 deaths (2%) in 1986)(2).

An exception to the above method of reporting has to do with residents of certain Indian reservations. Because of a special arrangement between the neighbouring health units and Alberta Vital Statistics, births and deaths identifiable as involving residents of these reservations are not assigned to

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1 Birth and Death Statistics by Health Units of Alberta - 1987, Alberta Health, Management Support Services, Edmonton.

2 Statistics Canada: Births and Deaths, Vital Statistics-Volume 1, 1986 Catalogue 84 - 204 Annual

the health unit in question, but rather given their own identifiers.(3,4) This makes it impossible to assign these vital events to a health unit without going back to the original registrations. Consequently these statistics have been excluded from the present report. However, data from Alberta Vital Statistics indicate that the resulting undercounting is very small.

Alberta Vital Statistics publishes an annual report containing, along with other information, birth and death statistics. In theory, the entries in the 1988 report should coincide exactly with those given here. However, certain discrepancies can be found. For example, Alberta Vital Statistics sets the total number of deaths (Alberta residents only) at 13,652 which is to be compared to 13,527 (excluding Indian Reservation) computed from Table 3.3 and Table 4.3 in this report. This difference is partially due to the fact that in this report only those cases with specific Health Unit codes are included. Other similar discrepancies may occur because the Alberta Vital Statistics system is a dynamic one, with registrations being updated, late registrations being filed and similar data modifications made continuously. These differences are not very important for the computation of health indices used in the report. More specifically, the health unit related rates provided in this report are unlikely to change.

POPULATION ESTIMATES

A large part of this report is concerned with birth and death rates. To compute these it is necessary to have estimates of population size.

In certain health units, up-to-date enumerations are available as they have been included in a municipal census. Hower, in order to have a uniform method applicable to all health units, it was decided to estimate all 1988 health unit population by projecting the health unit enumerations from the national census of 1986. The details of the method of projection are given in Appendix A.

SMALL AREA STATISTICS

The preceding sections dealt with some of the characteristics of the statistics that have been used in this report. A related consideration has to do with the problem of small area statistics.(5,6) This refers to the difficulties inherent in the analysis of statistics arising out of relatively sparsely populated areas. Because of the small number involved, indices computed from such statistics tend to be subject to random fluctuation. In the context of the present report, differences that appear to exist between one health unit and the next may be partly due to chance variation.

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3 Division Support Branch, Alberta Social Services and Community Health, 1983. A Study of the Methods of Reporting Vital Statistics and Communicable Diseases by Local Health Authority (unpublished document).

4 Birth and Death Statistics by Health Units of Alberta, 1983

5 Ibid

6 Diehr, R, 1984 . Small Area Statistics: Large Statistical Problems. American Journal of Public Health 70: 313-314.

CHAPTER 1
LIVE BIRTHS
1988

DESCRIPTION OF TABLES

Table 1.1 gives population estimates for females in the reproductive years (10-49) by five-year age groups, computed using the method described in Appendix A. Note that in this table the far right column gives the total number of females in each health unit and that the bottom row gives the provincial total for each age group.

Table 1.2 is derived directly from Table 1.1, and gives the percent of the population in each health unit falling in each of the age groups in the range 10-49. Due to rounding the row totals may not sum to 100.

Table 1.3 gives the number of live births by age group and health unit. Once again the totals for the health units and Alberta are provided.

Table 1.4 gives the age-specific live birth rates (per 1,000 females). These rates, sometimes called fertility rates, are defined by:

$$\frac{\text{number of live births to women in age group}}{\text{number of women in age group}} \times 1{,}000$$

Although not shown, it is possible to assign confidence intervals to each of the rates in this table along the lines of Table 1.5. The method of computation is described in Appendix B. Because of the small numbers involved in some of the health units, the age-specific rates in this table would be expected to have rather wide confidence intervals. For this reason Table 1.4 should be interpreted with caution, especially when health units are being compared.

Table 1.5 has a number of indices related to the age-standardized live birth rates for the year 1988. The technique of age-standardization is discussed in Appendix B. In the present case, rates have been standardized to the 1988 Alberta female population, ages from 10 to 49. This means that each of the age-standardized rates appearing in the first column of the table (where they are referred to simply as rates) is the live birth rate that would have been observed in each health unit in 1988 if the age distribution of women in the reproductive years in the health unit had been precisely the same as that observed in Alberta as a whole in the year 1988. This adjustment for differing age distributions (see Table 1.2) corrects for a potential source of artifactual error.

Associated with each of the (age-standardized) rates is a 95% confidence interval, with lower and upper limits shown in columns two and three. For details of the method of computation see Appendix B. These numbers bound the observed rate from below and above, respectively, and thereby give a range of numbers which include the true underlying rate with a 95% confidence level. The observed rate is simply one manifestation of the true underlying rate, which cannot be known with 100% confidence because of random variation. This means that the true underlying rate could be as small as the lower bound or as large as the upper bound. Typically the larger the population in question the narrower will be the confidence interval. Because they indicate the reliability of the observed rate, the lower and upper confidence limits should always be considered along with the rate.

In the fourth column the rates (excluding that for Alberta) have been ranked from 1 to 27, with 1 for the largest rate and 27 for the smallest.

The fifth column gives ratios, computed by dividing the rate for each health unit by the Alberta rate. This gives a measure of the relative magnitude of the rate for each health unit compared to Alberta as a whole. The ranks and ratios are simply different ways of looking at the rates in column one.

The final column records the results of statistical testing for a difference between the rate for each of the health units and the rate for Alberta. The principles involved are described in Appendix B. If the health unit rate was found to be larger than that for Alberta, and statistically significantly so, then a "Yes" was entered next to the health unit. If the health unit was observed to be less than the Alberta rate, or larger but not statistically significantly larger, then a dot was entered. Another approach to statistical testing would have involved looking for significant departures of the health unit rates from the Alberta rate whether higher or lower, and not just higher as in this report. However, this would have meant using a test with less sensitivity to detect higher than average health unit rates. Since these are the departures which tend to be of most interest (especially in the case of death rates) the present approach was adopted.

It must be reiterated that statistical significance is purely a property of numbers; as a concept it has no biological, demographic or social content. Consequently, even if two rates are determined to be different in a formal statistical sense, it is another matter as to whether or not they are different in a biological (or other) sense. This is a judgement to be made by the informed reader; it is outside the realm of statistical testing.

Figure 1.6 is a map of health units with the ranks from Table 1.5 inscribed. This provides a convenient method of searching for cluster of low or high ranks.

Table 1.7 to Table 1.9 give the number of live births by birth order, where "first order" means the first live birth for the woman and similarly for higher orders of births.

Table 1.10 and Table 1.11 give a breakdown of live births by weight category.

Table 1.12 to Table 1.14 and Figure 1.15 are similar in layout (and interpretation) to Table 1.3 to Table 1.5 and Figure 1.6, except that here attention is restricted to live births to women who were single (that is, not legally married) at the time of birth.

Table 1.16 is computed directly from Table 1.12 and gives the percent of the live births occurring in each age group. Due to rounding errors row totals may not equal 100.

Table 1.17 to Table 1.18 and Figure 1.19 are, once again, formatted along the lines of Table 1.3 to Table 1.5 and Figure 1.6, except that a single age group, the 15-19 year olds, is considered in detail. Consequently the age-specific and age-standardized rates coincide.

Table 1.20 to Table 1.21 and Figure 1.22 consider the live births and birth rates to single teenage mothers.

NUMBER IN POPULATION
FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1896	1950	1746	1972	2040	1766	1649	1271	14290
ALBERTA WEST CENTRAL	1597	1502	1549	1884	1867	1419	1129	1045	11992
ATHABASCA	1440	1388	1157	1260	1207	1019	906	697	9074
BANFF NATIONAL PARK	152	387	756	504	374	309	216	151	2849
BARONS EUREKA-WARNER	1731	1646	1262	1511	1493	1317	1142	902	11004
BIG COUNTRY	406	463	409	437	447	384	347	244	3137
CALGARY	19909	22095	29755	37892	34805	27387	21837	16150	209830
CHINOOK	1658	1640	1230	1502	1470	1306	1117	883	10806
DRUMHELLER	1300	1339	1048	1269	1351	1141	940	716	9104
EDMONTON	16354	20090	30137	33514	28463	20919	17479	14358	181314
FOOTHILLS	1344	1200	859	1249	1472	1385	1212	780	9501
FORT MCMURRAY	1685	1584	1629	2279	2139	1771	1173	606	12866
HIGH LEVEL-FORT VERMILION	835	698	659	658	481	345	306	254	4236
JASPER NATIONAL PARK	88	136	324	257	183	116	89	74	1267
LEDUC-STRATHCONA	5011	4553	2899	3843	5127	5291	4457	2872	34053
LETHBRIDGE	2010	2161	2591	2813	2732	2248	1803	1447	17805
MINBURN-VERMILION	1482	1466	1497	1678	1629	1308	1160	819	11039
MOUNT VIEW	2341	2119	1748	2628	3163	2717	2028	1469	18213
NORTH EASTERN ALBERTA	1991	1928	2049	2164	1830	1513	1366	977	13818
PEACE RIVER	1750	1536	1377	1626	1537	1237	1091	889	11043
RED DEER REGIONAL	4461	4524	5199	6003	5585	4440	3581	2891	36684
SOUTHEASTERN ALBERTA	2784	2744	3025	3487	3284	2721	2227	1675	21947
SOUTH PEACE	2706	2591	2753	3262	3077	2253	1923	1389	19954
STONY PLAIN-LAC STE. ANNE	3065	2382	1979	2825	3276	2905	2325	1515	20272
STURGEON	4291	3721	3004	3890	4546	4464	3495	2436	29847
VEGREVILLE	1037	1025	718	877	1072	991	830	697	7247
WETOKA	1315	1348	1217	1474	1500	1281	1120	889	10144
ALBERTA	**84639**	**88216**	**102576**	**122758**	**116150**	**93953**	**76948**	**58096**	**743336**

1.2

AGE DISTRIBUTIONS (IN %)
FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	13.3	13.7	12.2	13.8	14.3	12.4	11.5	8.9
ALBERTA WEST CENTRAL	13.3	12.7	12.9	15.7	15.6	11.8	9.4	8.7
ATHABASCA	15.9	15.3	12.8	13.3	13.3	11.2	10.0	7.7
BANFF NATIONAL PARK	5.3	13.6	26.5	17.7	13.1	10.9	7.6	5.3
BARONS EUREKA-WARNER	15.7	15.0	11.5	13.7	13.6	12.0	10.4	8.2
BIG COUNTRY	12.9	14.8	13.0	13.9	14.3	12.2	11.1	7.8
CALGARY	9.5	10.5	14.2	18.1	16.8	13.1	10.4	7.7
CHINOOK	15.3	15.2	11.4	13.9	13.6	12.1	10.3	8.2
DRUMHELLER	14.3	14.7	11.5	13.9	14.8	12.5	10.3	7.9
EDMONTON	9.0	11.1	16.6	18.5	15.7	11.5	9.6	7.9
FOOTHILLS	14.2	12.6	9.0	13.2	15.5	14.6	12.8	8.2
FORT MCMURRAY	13.1	12.3	12.7	17.7	13.6	13.8	9.1	4.7
HIGH LEVEL-FORT VERMILION	19.7	16.5	15.6	15.5	11.4	8.1	7.2	6.0
JASPER NATIONAL PARK	7.0	10.7	25.6	20.3	14.4	9.2	7.0	5.8
LEDUC-STRATHCONA	14.7	13.4	8.5	11.3	15.1	15.8	13.1	8.4
LETHBRIDGE	11.3	12.1	14.6	15.8	15.3	12.6	10.1	8.1
MINBURN-VERMILION	13.4	13.3	13.6	15.2	14.8	11.9	10.5	7.4
MOUNT VIEW	12.9	11.6	9.6	14.4	17.4	14.9	11.1	8.1
NORTH EASTERN ALBERTA	14.4	14.0	14.8	15.7	13.2	10.9	9.9	7.1
PEACE RIVER	15.9	13.9	12.5	14.7	13.9	11.2	9.9	8.1
RED DEER REGIONAL	12.2	12.3	14.2	16.4	15.2	12.1	9.8	7.9
SOUTHEASTERN ALBERTA	12.7	12.5	13.8	15.9	15.0	12.4	10.2	7.6
SOUTH PEACE	13.6	13.0	13.8	16.4	15.4	11.3	9.6	6.7
STONY PLAIN-LAC STE. ANNE	15.1	11.8	9.8	13.9	16.2	14.3	11.5	7.5
STURGEON	14.4	12.5	10.1	13.0	15.2	15.0	11.7	8.2
VEGREVILLE	14.3	14.1	9.9	12.1	14.8	13.7	11.5	9.6
WETOKA	13.0	13.3	12.0	14.5	14.8	12.6	11.0	8.8
ALBERTA	**11.4**	**11.9**	**13.8**	**16.5**	**15.6**	**12.6**	**10.4**	**7.8**

1.3

NUMBER OF LIVE BIRTHS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	50	251	312	162	43	4	0	822
ALBERTA WEST CENTRAL	0	71	230	284	138	27	2	0	752
ATHABASCA	0	111	218	204	97	23	2	0	655
BANFF NATIONAL PARK	0	3	11	22	18	8	1	0	63
BARONS EUREKA-WARNER	2	43	180	289	153	38	10	0	715
BIG COUNTRY	1	10	64	69	46	9	4	0	203
CALGARY	5	560	2170	4435	3325	884	106	3	11488
CHINOOK	0	41	132	213	111	28	4	0	529
DRUMHELLER	0	33	132	239	110	35	7	0	556
EDMONTON	8	744	2386	3935	2579	731	89	2	10474
FOOTHILLS	0	24	98	216	138	25	5	0	506
FORT MCMURRAY	1	86	187	276	150	47	3	0	750
HIGH LEVEL-FORT VERMILION	1	63	139	130	69	20	11	0	433
JASPER NATIONAL PARK	0	3	11	21	16	4	0	0	55
LEDUC-STRATHCONA	0	76	281	587	393	96	15	0	1448
LETHBRIDGE	0	58	217	324	209	41	7	0	856
MINBURN-VERMILION	0	24	79	153	77	17	5	0	355
MOUNT VIEW	1	44	223	387	272	85	12	0	1024
NORTH EASTERN ALBERTA	2	98	275	345	141	33	7	0	901
PEACE RIVER	0	104	254	247	109	27	5	2	748
RED DEER REGIONAL	3	158	510	867	395	84	9	0	2026
SOUTHEASTERN ALBERTA	0	79	327	447	248	49	6	0	1156
SOUTH PEACE	1	122	324	409	168	44	5	1	1074
STONY PLAIN-LAC STE. ANNE	1	84	256	430	237	64	5	0	1077
STURGEON	1	91	312	647	366	82	5	0	1504
VEGREVILLE	0	21	89	152	76	20	3	0	361
WETOKA	1	54	186	201	106	31	4	0	583
ALBERTA	**28**	**2855**	**9542**	**15841**	**9909**	**2595**	**336**	**8**	**41114**

1.4

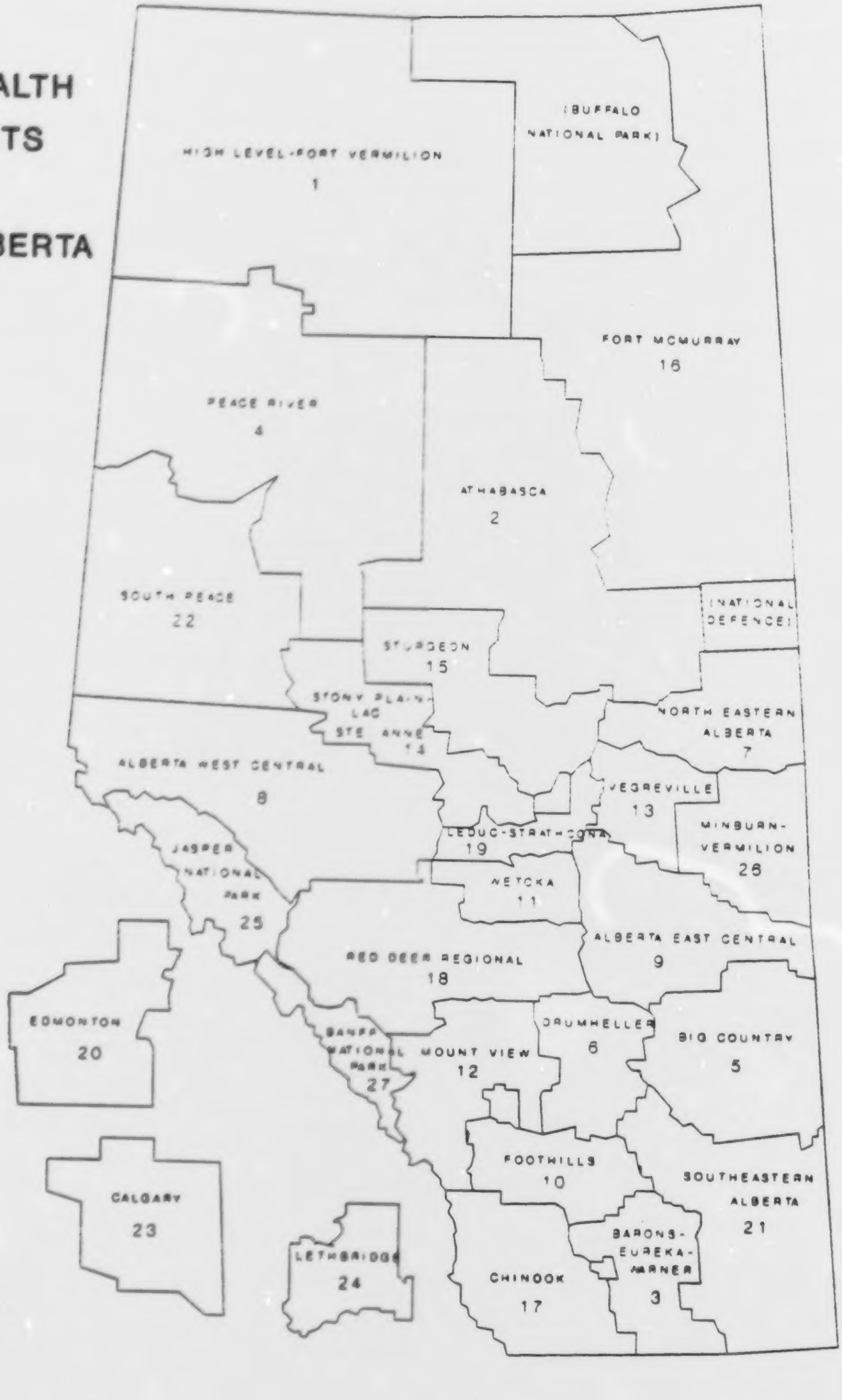
AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 FEMALES), 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.0	25.6	143.8	156.2	79.4	24.3	2.4	0.0
ALBERTA WEST CENTRAL	0.0	47.3	148.5	150.7	73.9	19.0	1.8	0.0
ATHABASCA	0.0	80.0	188.4	161.9	80.4	22.6	2.2	0.0
BANFF NATIONAL PARK	0.0	7.8	14.6	43.7	48.1	25.9	4.6	0.0
BARONS EUREKA-WARNER	1.2	26.1	142.6	191.3	102.5	28.9	8.8	0.0
BIG COUNTRY	2.5	21.6	156.5	157.9	102.9	23.4	11.5	0.0
CALGARY	0.3	25.3	72.9	117.0	95.5	32.3	4.9	0.2
CHINOOK	0.0	25.0	107.3	141.8	75.5	21.4	3.6	0.0
DRUMHELLER	0.0	24.6	126.0	188.3	81.4	30.7	7.4	0.0
EDMONTON	0.5	37.0	79.2	117.4	90.6	34.9	5.1	0.1
FOOTHILLS	0.0	20.0	114.1	172.9	93.8	18.1	4.1	0.0
FORT MCMURRAY	0.6	54.3	114.8	121.1	70.1	26.5	2.6	0.0
HIGH LEVEL-FORT VERMILION	1.2	90.3	210.9	197.6	143.5	58.0	35.9	0.0
JASPER NATIONAL PARK	0.0	22.1	34.0	81.7	87.4	34.5	0.0	0.0
LEDUC-STRATHCONA	0.0	16.7	96.9	152.7	76.7	18.1	3.4	0.0
LETHBRIDGE	0.0	26.8	83.8	115.2	76.5	18.2	3.9	0.0
MINBURN-VERMILION	0.0	16.4	52.8	91.2	47.3	13.0	4.3	0.0
MOUNT VIEW	0.4	20.8	127.6	147.3	86.0	31.3	5.9	0.0
NORTH EASTERN ALBERTA	1.0	50.8	134.2	159.4	77.0	21.8	5.1	0.0
PEACE RIVER	0.0	67.7	184.5	151.9	70.9	21.8	4.6	2.2
RED DEER REGIONAL	0.7	34.9	98.1	144.4	70.7	18.9	2.5	0.0
SOUTHEASTERN ALBERTA	0.0	28.8	108.1	128.2	75.5	18.0	2.7	0.0
SOUTH PEACE	0.4	47.1	117.7	125.4	54.6	19.5	2.6	0.7
STONY PLAIN-LAC STE. ANNE	0.3	35.3	129.4	152.2	72.3	22.0	2.2	0.0
STURGEON	0.2	24.5	103.9	166.3	80.5	18.4	1.4	0.0
VEGREVILLE	0.0	20.5	124.0	173.3	70.9	20.2	3.6	0.0
WETOKA	0.8	40.1	152.8	136.4	70.7	24.2	3.6	0.0
ALBERTA	**0.3**	**32.4**	**93.0**	**129.0**	**85.3**	**27.6**	**4.4**	**0.1**

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1,000 FEMALES), 1988

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	64.7	60.3	69.2	9	1.17	YES
ALBERTA WEST CENTRAL	65.1	60.5	69.8	8	1.18	YES
ATHABASCA	77.9	71.9	83.9	2	1.41	YES
BANFF NATIONAL PARK	21.4	16.0	26.9	27	0.39	.
BARONS EUREKA-WARNER	75.1	69.5	80.6	3	1.36	YES
BIG COUNTRY	70.7	61.0	80.5	5	1.28	YES
CALGARY	52.0	51.0	52.9	23	0.94	.
CHINOOK	56.1	51.3	60.9	17	1.01	.
DRUMHELLER	68.8	63.0	74.5	6	1.24	YES
EDMONTON	53.9	52.8	54.9	20	0.97	.
FOOTHILLS	64.0	58.4	69.7	10	1.16	YES
FORT MCMURRAY	56.9	52.8	61.0	16	1.03	.
HIGH LEVEL-FORT VERMILION	106.0	95.8	116.3	1	1.92	YES
JASPER NATIONAL PARK	38.8	28.2	49.4	25	0.70	.
LEDUC-STRATHCONA	55.2	52.3	58.1	19	1.00	.
LETHBRIDGE	48.4	45.2	51.7	24	0.88	.
MINBURN-VERMILION	33.8	30.2	37.3	26	0.61	.
MOUNT VIEW	62.4	58.6	66.3	12	1.13	YES
NORTH EASTERN ALBERTA	66.3	62.0	70.7	7	1.20	YES
PEACE RIVER	73.1	67.8	78.3	4	1.32	YES
RED DEER REGIONAL	55.3	52.9	57.7	18	1.00	.
SOUTHEASTERN ALBERTA	53.9	50.8	57.0	21	0.97	.
SOUTH PEACE	53.9	50.7	57.1	22	0.97	.
STONY PLAIN-LAC STE. ANNE	61.5	57.8	65.2	14	1.11	YES
STURGEON	59.8	56.7	62.8	15	1.08	YES
VEGREVILLE	62.2	557	68.6	13	1.12	YES
WETOKA	62.9	57.8	68.0	11	1.14	YES
ALBERTA	55.3	54.8	55.8			

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION 1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY 16
PEACE RIVER 4
ATHABASCA 2
SOUTH PEACE 22
(NATIONAL DEFENCE)
STURGEON 15
STONY PLAIN-LAC STE. ANNE 14
NORTH EASTERN ALBERTA 7
ALBERTA WEST CENTRAL 8
VEGREVILLE 13
MINBURN-VERMILION 26
LEDUC-STRATHCONA 19
JASPER NATIONAL PARK 25
WETOKA 11
ALBERTA EAST CENTRAL 9
RED DEER REGIONAL 18
EDMONTON 20
DRUMHELLER 6
BIG COUNTRY 5
BANFF NATIONAL PARK 27
MOUNT VIEW 12
FOOTHILLS 10
SOUTHEASTERN ALBERTA 21
CALGARY 23
BARONS-EUREKA-WARNER 3
LETHBRIDGE 24
CHINOOK 17

NUMBER OF FIRST ORDER LIVE BIRTHS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	43	119	82	24	6	1	0	275
ALBERTA WEST CENTRAL	0	53	102	73	29	4	0	0	261
ATHABASCA	0	78	67	58	18	1	1	0	223
BANFF NATIONAL PARK	0	2	8	10	5	5	1	0	31
BARONS EUREKA-WARNER	2	34	87	70	18	3	0	0	214
BIG COUNTRY	1	9	36	19	10	0	0	0	75
CALGARY	5	468	1273	1991	1088	216	27	0	5068
CHINOOK	0	35	57	49	15	3	0	0	159
DRUMHELLER	0	23	64	74	10	2	0	0	173
EDMONTON	8	571	1303	1727	706	170	18	1	4504
FOOTHILLS	0	22	47	73	24	0	0	0	166
FORT MCMURRAY	1	70	99	102	42	12	0	0	326
HIGH LEVEL-FORT VERMILION	1	45	44	22	4	0	0	0	116
JASPER NATIONAL PARK	0	3	10	15	5	0	0	0	33
LEDUC-STRATHCONA	0	72	149	198	96	17	3	0	535
LETHBRIDGE	0	49	109	105	52	6	1	0	322
MINBURN-VERMILION	0	18	39	38	13	5	0	0	113
MOUNT VIEW	1	36	106	142	77	11	4	0	377
NORTH EASTERN ALBERTA	2	77	132	93	25	4	1	0	334
PEACE RIVER	0	72	92	51	17	0	2	0	234
RED DEER REGIONAL	3	135	254	276	83	11	1	0	763
SOUTHEASTERN ALBERTA	0	72	176	167	49	3	1	0	468
SOUTH PEACE	1	105	154	109	25	9	0	0	403
STONY PLAIN-LAC STE. ANNE	1	71	113	131	41	8	1	0	366
STURGEON	1	80	162	222	89	11	0	0	565
VEGREVILLE	0	19	47	38	12	5	1	0	122
WETOKA	1	44	83	57	16	4	0	0	205
ALBERTA	**28**	**2306**	**4932**	**5992**	**2593**	**516**	**63**	**1**	**16431**

1.8

NUMBER OF SECOND ORDER LIVE BIRTHS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	7	99	125	48	8	2	0	289
ALBERTA WEST CENTRAL	0	17	88	122	48	7	1	0	283
ATHABASCA	0	32	86	62	19	10	0	0	209
BANFF NATIONAL PARK	0	1	2	9	10	1	0	0	23
BARONS EUREKA-WARNER	0	6	63	92	33	4	4	0	202
BIG COUNTRY	0	1	22	29	12	3	1	0	68
CALGARY	0	82	670	1683	1373	314	35	1	4158
CHINOOK	0	6	43	72	28	1	0	0	150
DRUMHELLER	0	8	42	78	29	12	0	0	169
EDMONTON	0	158	812	1430	1019	263	27	0	3709
FOOTHILLS	0	2	36	75	56	11	1	0	181
FORT MCMURRAY	0	12	67	116	57	18	1	0	271
HIGH LEVEL-FORT VERMILION	0	16	50	27	9	1	0	0	103
JASPER NATIONAL PARK	0	0	1	4	9	4	0	0	18
LEDUC-STRATHCONA	0	4	99	220	157	31	4	0	515
LETHBRIDGE	0	9	76	141	83	17	1	0	327
MINBURN-VERMILION	0	4	25	64	23	6	0	0	122
MOUNT VIEW	0	7	97	148	88	35	1	0	376
NORTH EASTERN ALBERTA	0	17	93	136	40	10	2	0	298
PEACE RIVER	0	28	99	86	30	5	0	0	248
RED DEER REGIONAL	0	22	191	343	135	29	5	0	725
SOUTHEASTERN ALBERTA	0	6	119	161	97	10	0	0	393
SOUTH PEACE	0	15	107	155	63	6	0	1	347
STONY PLAIN-LAC STE. ANNE	0	13	90	163	86	15	1	0	368
STURGEON	0	10	121	249	121	21	1	0	523
VEGREVILLE	0	1	36	63	14	5	0	0	119
WETOKA	0	10	78	71	40	9	1	0	209
ALBERTA	**0**	**494**	**3312**	**5924**	**3727**	**856**	**88**	**2**	**14403**

1.9

NUMBER OF THIRD OR HIGHER ORDER LIVE BIRTHS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	33	105	90	29	1	0	258
ALBERTA WEST CENTRAL	0	1	40	89	61	16	1	0	208
ATHABASCA	0	1	65	84	60	12	1	0	223
BANFF NATIONAL PARK	0	0	1	3	3	2	0	0	9
BARONS EUREKA-WARNER	0	3	30	127	102	31	6	0	299
BIG COUNTRY	0	0	6	21	24	6	3	0	60
CALGARY	0	10	227	761	864	354	44	2	2262
CHINOOK	0	0	32	92	68	24	4	0	220
DRUMHELLER	0	2	26	87	71	21	7	0	214
EDMONTON	0	15	271	778	854	298	44	1	2261
FOOTHILLS	0	0	15	68	58	14	4	0	159
FORT MCMURRAY	0	4	21	58	51	17	2	0	153
HIGH LEVEL-FORT VERMILION	0	2	45	81	56	19	11	0	214
JASPER NATIONAL PARK	0	0	0	2	2	0	0	0	4
LEDUC-STRATHCONA	0	0	33	169	140	48	8	0	398
LETHBRIDGE	0	0	32	78	74	18	5	0	207
MINBURN-VERMILION	0	2	15	51	41	6	5	0	120
MOUNT VIEW	0	1	20	97	107	39	7	0	271
NORTH EASTERN ALBERTA	0	4	50	116	76	19	4	0	269
PEACE RIVER	0	4	63	110	62	22	3	2	266
RED DEER REGIONAL	0	1	65	248	177	44	3	0	538
SOUTHEASTERN ALBERTA	0	1	32	119	102	36	5	0	295
SOUTH PEACE	0	2	63	145	80	29	5	0	324
STONY PLAIN-LAC STE. ANNE	0	0	53	136	110	41	3	0	343
STURGEON	0	1	29	176	156	50	4	0	416
VEGREVILLE	0	1	6	51	50	10	2	0	120
WETOKA	0	0	25	73	50	18	3	0	169
ALBERTA	0	55	1298	3925	3589	1223	185	5	10280

NUMBER OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1988

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+	TOTAL
ALBERTA EAST CENTRAL	0	5	6	27	121	646	17	822
ALBERTA WEST CENTRAL	6	4	7	28	123	576	8	752
ATHABASCA	3	7	2	22	89	518	14	655
BANFF NATIONAL PARK	1	1	1	7	11	40	2	63
BARONS EUREKA-WARNER	1	3	3	26	101	572	9	715
BIG COUNTRY	0	1	2	5	35	157	3	203
CALGARY	46	71	140	465	1970	8668	128	11488
CHINOOK	1	1	5	24	81	409	8	529
DRUMHELLER	3	1	7	15	70	452	8	556
EDMONTON	38	57	115	416	1748	7960	140	10474
FOOTHILLS	2	2	3	20	69	405	5	506
FORT MCMURRAY	5	4	14	18	86	604	19	750
HIGH LEVEL-FORT VERMILION	0	4	6	14	69	332	8	433
JASPER NATIONAL PARK	0	1	0	1	5	47	1	55
LEDUC-STRATHCONA	4	6	17	47	226	1125	23	1448
LETHBRIDGE	4	9	5	31	166	636	5	856
MINBURN-VERMILION	2	5	7	7	53	270	11	355
MOUNT VIEW	4	4	13	40	153	797	13	1024
NORTH EASTERN ALBERTA	3	3	10	28	127	714	16	901
PEACE RIVER	0	6	9	26	108	590	9	748
RED DEER REGIONAL	6	6	28	75	317	1569	25	2026
SOUTHEASTERN ALBERTA	4	2	9	43	176	905	17	1156
SOUTH PEACE	4	8	10	34	167	838	13	1074
STONY PLAIN-LAC STE. ANNE	4	6	10	51	170	820	16	1077
STURGEON	8	7	10	56	201	1199	23	1504
VEGREVILLE	0	1	4	21	62	267	6	361
WETOKA	0	1	5	17	80	466	14	583
ALBERTA	**149**	**226**	**448**	**1564**	**6584**	**31582**	**561**	**41114**

PERCENT OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1988

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+
ALBERTA EAST CENTRAL	0.0	0.6	0.7	3.3	14.7	78.6	2.1
ALBERTA WEST CENTRAL	0.8	0.5	0.9	3.7	16.4	76.6	1.1
ATHABASCA	0.5	1.1	0.3	3.4	13.6	79.1	2.1
BANFF NATIONAL PARK	1.6	1.6	1.6	11.1	17.5	63.5	3.2
BARONS EUREKA-WARNER	0.1	0.4	0.4	3.6	14.1	80.0	1.3
BIG COUNTRY	0.0	0.5	1.0	2.5	17.2	77.3	1.5
CALGARY	0.4	0.6	1.2	4.0	17.1	75.5	1.1
CHINOOK	0.2	0.2	0.9	4.5	15.3	77.3	1.5
DRUMHELLER	0.5	0.2	1.3	2.7	12.6	81.3	1.4
EDMONTON	0.4	0.5	1.1	4.0	16.7	76.0	1.3
FOOTHILLS	0.4	0.4	0.6	4.0	13.6	80.0	1.0
FORT MCMURRAY	0.7	0.5	1.9	2.4	11.5	80.5	2.5
HIGH LEVEL-FORT VERMILION	0.0	0.9	1.4	3.2	15.9	76.7	1.8
JASPER NATIONAL PARK	0.0	1.8	0.0	1.8	9.1	85.5	1.8
LEDUC-STRATHCONA	0.3	0.4	1.2	3.2	15.6	77.7	1.6
LETHBRIDGE	0.5	1.1	0.6	3.6	19.4	74.3	0.6
MINBURN-VERMILION	0.6	1.4	2.0	2.0	14.9	76.1	3.1
MOUNT VIEW	0.4	0.4	1.3	3.9	14.9	77.8	1.3
NORTH EASTERN ALBERTA	0.3	0.3	1.1	3.1	14.1	79.2	1.8
PEACE RIVER	0.0	0.8	1.2	3.5	14.4	78.9	1.2
RED DEER REGIONAL	0.3	0.3	1.4	3.7	15.6	77.4	1.2
SOUTHEASTERN ALBERTA	0.3	0.2	0.8	3.7	15.2	78.3	1.5
SOUTH PEACE	0.4	0.7	0.9	3.2	15.5	78.0	1.2
STONY PLAIN-LAC STE. ANNE	0.4	0.6	0.9	4.7	15.8	76.1	1.5
STURGEON	0.5	0.5	0.7	3.7	13.4	79.7	1.5
VEGREVILLE	0.0	0.3	1.1	5.8	17.2	74.0	1.7
WETOKA	0.0	0.2	0.9	2.9	13.7	79.9	2.4
ALBERTA	**0.4**	**0.5**	**1.1**	**3.8**	**16.0**	**76.8**	**1.4**

NUMBER OF LIVE BIRTHS TO SINGLE MOTHERS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	36	37	19	2	1	0	0	95
ALBERTA WEST CENTRAL	0	57	63	28	9	2	0	0	159
ATHABASCA	0	86	119	54	15	2	0	0	276
BANFF NATIONAL PARK	0	1	4	5	1	0	1	0	12
BARONS EUREKA-WARNER	2	22	21	10	4	0	0	0	59
BIG COUNTRY	1	5	9	1	1	0	0	0	17
CALGARY	5	425	643	378	129	25	6	0	1611
CHINOOK	0	21	26	13	3	1	0	0	64
DRUMHELLER	0	26	32	22	7	2	0	0	89
EDMONTON	8	590	851	371	124	45	4	0	1993
FOOTHILLS	0	20	26	12	4	1	0	0	63
FORT MCMURRAY	1	74	91	44	12	3	0	0	225
HIGH LEVEL-FORT VERMILION	1	53	55	29	10	1	1	0	150
JASPER NATIONAL PARK	0	3	3	4	2	1	0	0	13
LEDUC-STRATHCONA	0	58	53	24	8	0	0	0	143
LETHBRIDGE	0	45	52	19	7	2	0	0	125
MINBURN-VERMILION	0	17	12	11	2	1	0	0	43
MOUNT VIEW	1	32	36	20	13	1	0	0	103
NORTH EASTERN ALBERTA	2	83	92	45	17	1	0	0	240
PEACE RIVER	0	86	96	49	18	3	0	0	252
RED DEER REGIONAL	3	123	141	74	24	3	0	0	368
SOUTHEASTERN ALBERTA	0	59	70	23	6	0	0	0	158
SOUTH PEACE	1	98	103	37	12	2	1	0	254
STONY PLAIN-LAC STE. ANNE	1	68	66	50	15	4	1	0	205
STURGEON	1	75	71	40	10	3	0	0	200
VEGREVILLE	0	17	20	7	3	0	0	0	47
WETOKA	1	37	49	17	8	1	1	0	114
ALBERTA	28	2217	2841	1406	466	105	15	0	7078

AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 SINGLE MOTHERS), 1988

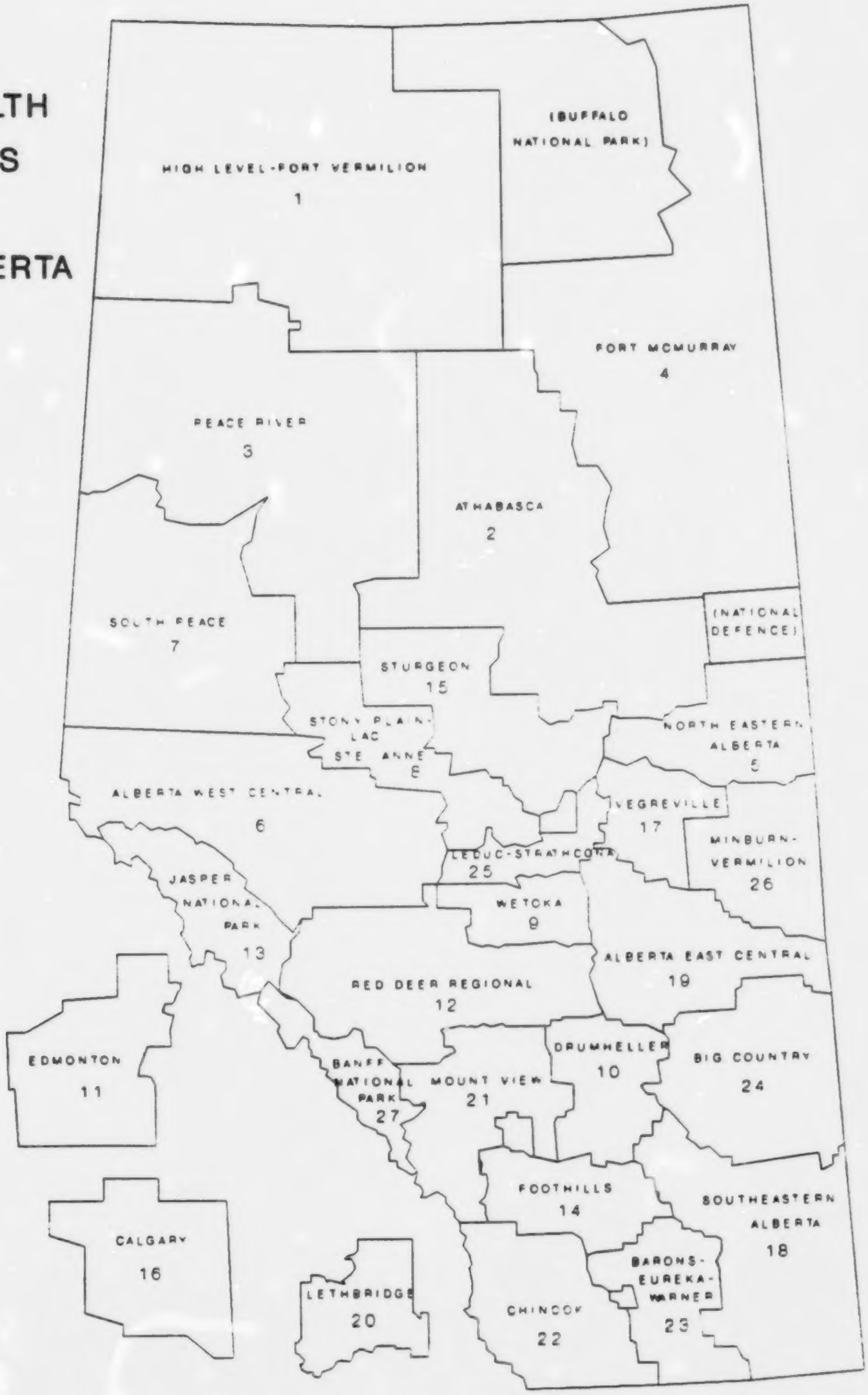
HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.0	18.5	21.2	9.6	1.0	0.6	0.0	0
ALBERTA WEST CENTRAL	0.0	37.9	40.7	14.9	4.8	1.4	0.0	0
ATHABASCA	0.0	62.0	102.9	42.9	12.4	2.0	0.0	0
BANFF NATIONAL PARK	0.0	2.6	5.3	9.9	2.7	0.0	4.6	0
BARONS EUREKA-WARNER	1.2	13.4	16.6	6.6	2.7	0.0	0.0	0
BIG COUNTRY	2.5	10.8	22.0	2.3	2.2	0.0	0.0	0
CALGARY	0.3	19.2	21.6	10.0	3.7	0.9	0.3	0
CHINOOK	0.0	12.8	21.1	8.7	2.0	0.8	0.0	0
DRUMHELLER	0.0	19.4	30.5	17.3	5.2	1.8	0.0	0
EDMONTON	0.5	29.4	28.2	11.1	4.4	2.2	0.2	0
FOOTHILLS	0.0	16.7	30.3	9.6	2.7	0.7	0.0	0
FORT MCMURRAY	0.6	46.7	55.9	19.3	5.6	1.7	0.0	0
HIGH LEVEL-FORT VERMILION	1.2	75.9	83.5	44.1	20.8	2.9	3.3	0
JASPER NATIONAL PARK	0.0	22.1	9.3	15.6	10.9	8.6	0.0	0
LEDUC-STRATHCONA	0.0	12.7	18.3	6.2	1.6	0.0	0.0	0
LETHBRIDGE	0.0	20.8	20.1	6.8	2.6	0.9	0.0	0
MINBURN-VERMILION	0.0	11.6	8.0	6.6	1.2	0.8	0.0	0
MOUNT VIEW	0.4	15.1	20.6	7.6	4.1	0.4	0.0	0
NORTH EASTERN ALBERTA	1.0	43.0	44.9	20.8	9.3	0.7	0.0	0
PEACE RIVER	0.0	56.0	69.7	30.1	11.7	2.4	0.0	0
RED DEER REGIONAL	0.7	27.2	27.1	12.3	4.3	0.7	0.0	0
SOUTHEASTERN ALBERTA	0.0	21.5	23.1	6.6	1.8	0.0	0.0	0
SOUTH PEACE	0.4	37.8	37.4	11.3	3.9	0.9	0.5	0
STONY PLAIN-LAC STE. ANNE	0.3	28.5	33.4	17.7	4.6	1.4	0.4	0
STURGEON	0.2	20.2	23.6	10.3	2.2	0.7	0.0	0
VEGREVILLE	0.0	16.6	27.9	8.0	2.8	0.0	0.0	0
WETOKA	0.8	27.4	40.3	11.5	5.3	0.8	0.9	0
ALBERTA	**0.3**	**25.1**	**27.7**	**11.5**	**4.0**	**1.1**	**0.2**	**0**

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1000 SINGLE MOTHERS), 1988

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	6.9	5.5	8.3	19	0.73	.
ALBERTA WEST CENTRAL	13.5	11.4	15.6	6	1.42	YES
ATHABASCA	30.8	27.1	34.5	2	3.24	YES
BANFF NATIONAL PARK	3.6	1.5	5.7	27	0.38	.
BARONS EUREKA-WARNER	5.5	4.1	7.0	23	0.58	.
BIG COUNTRY	5.3	2.8	7.9	24	0.56	.
CALGARY	7.7	7.3	8.0	16	0.81	.
CHINOOK	6.3	4.7	7.8	22	0.66	.
DRUMHELLER	10.4	8.2	12.6	10	1.09	.
EDMONTON	10.2	9.8	10.7	11	1.07	YES
FOOTHILLS	8.3	6.2	10.3	14	0.87	.
FORT MCMURRAY	17.6	15.3	19.9	4	1.85	YES
HIGH LEVEL-FORT VERMILION	31.9	26.7	37.1	1	3.36	YES
JASPER NATIONAL PARK	9.3	4.0	14.5	13	0.98	.
LEDUC-STRATHCONA	5.3	4.4	6.2	25	0.56	.
LETHBRIDGE	6.9	5.7	8.1	20	0.73	.
MINBURN-VERMILION	3.9	2.7	5.0	26	0.41	.
MOUNT VIEW	6.6	5.3	7.9	21	0.69	.
NORTH EASTERN ALBERTA	16.4	14.3	18.5	5	1.73	YES
PEACE RIVER	23.4	20.5	26.3	3	2.46	YES
RED DEER REGIONAL	9.8	8.8	10.8	12	1.03	.
SOUTHEASTERN ALBERTA	7.1	6.0	8.2	18	0.75	.
SOUTH PEACE	12.3	10.8	13.9	7	1.29	YES
STONY PLAIN-LAC STE. ANNE	11.9	10.2	13.5	8	1.25	YES
STURGEON	7.8	6.7	8.9	15	0.82	.
VEGREVILLE	7.6	5.4	9.8	17	0.80	.
WETOKA	11.8	9.6	14.0	9	1.24	YES
ALBERTA	**9.5**	**9.3**	**9.7**			

1.15 LIVE BIRTHS TO SINGLE MOTHERS, 1988

HEALTH UNITS OF ALBERTA



HIGH LEVEL-FORT VERMILION 1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY 4
PEACE RIVER 3
ATHABASCA 2
SOUTH PEACE 7
(NATIONAL DEFENCE)
STURGEON 15
STONY PLAIN-LAC STE. ANNE 8
NORTH EASTERN ALBERTA 5
ALBERTA WEST CENTRAL 6
VEGREVILLE 17
MINBURN-VERMILION 26
LEDUC-STRATHCONA 25
JASPER NATIONAL PARK 13
WETOKA 9
ALBERTA EAST CENTRAL 19
RED DEER REGIONAL 12
EDMONTON 11
DRUMHELLER 10
BIG COUNTRY 24
BANFF NATIONAL PARK 27
MOUNT VIEW 21
FOOTHILLS 14
SOUTHEASTERN ALBERTA 18
CALGARY 16
BARONS-EUREKA-WARNER 23
LETHBRIDGE 20
CHINOOK 22

PERCENT OF LIVE BIRTHS TO SINGLE MOTHERS, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	72	15	6	1	2	0	0	12
ALBERTA WEST CENTRAL	0	80	27	10	7	7	0	0	21
ATHABASCA	0	77	55	26	15	9	0	0	42
BANFF NATIONAL PARK	0	33	36	23	6	0	100	0	19
BARONS EUREKA-WARNER	100	51	12	3	3	0	0	0	8
BIG COUNTRY	100	50	14	1	2	0	0	0	8
CALGARY	100	76	30	9	4	3	6	0	14
CHINOOK	0	51	20	4	3	4	0	0	12
DRUMHELLER	0	79	24	9	6	6	0	0	16
EDMONTON	100	79	36	9	5	6	4	0	19
FOOTHILLS	0	83	27	9	3	4	0	0	12
FORT MCMURRAY	100	86	49	16	8	6	0	0	30
HIGH LEVEL-FORT VERMILION	100	84	40	22	14	5	9	0	35
JASPER NATIONAL PARK	0	100	27	19	13	25	0	0	24
LEDUC-STRATHCONA	0	76	19	4	2	0	0	0	10
LETHBRIDGE	100	78	24	6	3	5	0	0	15
MINBURN-VERMILION	0	71	15	7	3	6	0	0	12
MOUNT VIEW	100	73	16	5	5	1	0	0	10
NORTH EASTERN ALBERTA	100	85	33	13	12	3	0	0	27
PEACE RIVER	0	83	38	20	17	11	0	0	34
RED DEER REGIONAL	100	78	28	9	6	4	0	0	18
SOUTHEASTERN ALBERTA	0	75	21	5	2	0	0	0	14
SOUTH PEACE	100	80	32	9	7	5	20	0	24
STONY PLAIN-LAC STE. ANNE	100	81	26	12	6	6	20	0	19
STURGEON	100	82	23	6	3	4	0	0	13
VEGREVILLE	0	81	22	5	4	0	0	0	13
WETOKA	100	69	24	8	8	25	25	0	20
ALBERTA	**100**	**78**	**30**	**9**	**5**	**4**	**4**	**0**	**17**

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NUMBER OF TEENAGE (15-19) LIVE BIRTHS, 1988

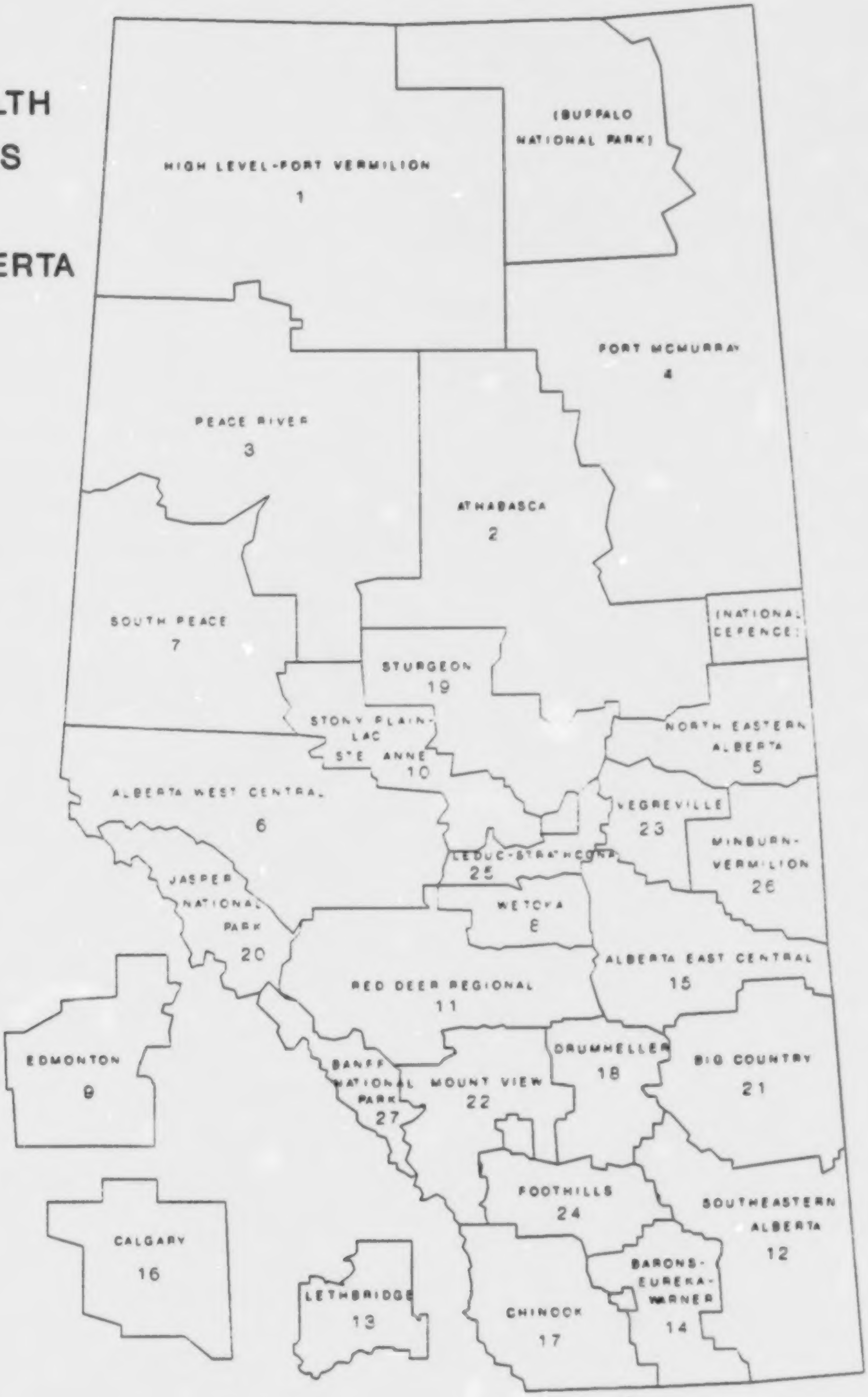
HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	50
ALBERTA WEST CENTRAL	71
ATHABASCA	111
BANFF NATIONAL PARK	3
BARONS EUREKA-WARNER	43
BIG COUNTRY	10
CALGARY	560
CHINOOK	41
DRUMHELLER	33
EDMONTON	744
FOOTHILLS	24
FORT MCMURRAY	86
HIGH LEVEL-FORT VERMILION	63
JASPER NATIONAL PARK	3
LEDUC-STRATHCONA	76
LETHBRIDGE	58
MINBURN-VERMILION	24
MOUNT VIEW	44
NORTH EASTERN ALBERTA	98
PEACE RIVER	104
RED DEER REGIONAL	158
SOUTHEASTERN ALBERTA	79
SOUTH PEACE	122
STONY PLAIN-LAC STE. ANNE	84
STURGEON	91
VEGREVILLE	21
WETOKA	54
ALBERTA	**2855**

TEENAGE (15-19) LIVE BIRTH RATES (PER 1,000 FEMALES), 1988

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	25.6	18.5	32.7	15	0.79	.
ALBERTA WEST CENTRAL	47.3	36.3	58.3	6	1.46	YES
ATHABASCA	80.0	65.1	94.8	2	2.47	YES
BANFF NATIONAL PARK	7.8	-1.0	16.5	27	0.24	.
BARONS EUREKA-WARNER	26.1	18.3	33.9	14	0.81	.
BIG COUNTRY	21.6	8.2	35.0	21	0.67	.
CALGARY	25.3	23.2	27.4	16	0.78	.
CHINOOK	25.0	17.3	32.7	17	0.77	.
DRUMHELLER	24.6	16.2	33.1	18	0.76	.
EDMONTON	37.0	34.4	39.7	9	1.14	YES
FOOTHILLS	20.0	12.0	28.0	24	0.62	.
FORT MCMURRAY	54.3	42.8	65.8	4	1.68	YES
HIGH LEVEL-FORT VERMILION	90.3	68.0	112.5	1	2.79	YES
JASPER NATIONAL PARK	22.1	-2.9	47.0	20	0.68	.
LEDUC-STRATHCONA	16.7	12.9	20.4	25	0.52	.
LETHBRIDGE	26.8	19.9	33.7	13	0.83	.
MINBURN-VERMILION	16.4	9.8	22.9	26	0.51	.
MOUNT VIEW	20.8	14.6	26.9	22	0.64	.
NORTH EASTERN ALBERTA	50.8	40.8	60.9	5	1.57	YES
PEACE RIVER	67.7	54.7	80.7	3	2.09	YES
RED DEER REGIONAL	34.9	29.5	40.4	11	1.08	YES
SOUTHEASTERN ALBERTA	28.8	22.4	35.1	12	0.89	.
SOUTH PEACE	47.1	38.7	55.4	7	1.45	YES
STONY PLAIN-LAC STE. ANNE	35.3	27.7	42.8	10	1.09	YES
STURGEON	24.5	19.4	29.5	19	0.76	.
VEGREVILLE	20.5	11.7	29.3	23	0.63	.
WETOKA	40.1	29.4	50.7	8	1.24	YES
ALBERTA	**32.4**	**31.2**	**33.6**			

1.19 TEEN LIVE BIRTHS, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION 1
(BUFFALO NATIONAL PARK)
FORT McMURRAY 4
PEACE RIVER 3
ATHABASCA 2
SOUTH PEACE 7
(NATIONAL DEFENCE)
STURGEON 19
STONY PLAIN-LAC STE ANNE 10
NORTH EASTERN ALBERTA 5
ALBERTA WEST CENTRAL 6
VEGREVILLE 23
LEDUC-STRATHCONA 25
MINBURN-VERMILION 26
JASPER NATIONAL PARK 20
WETOKA 8
ALBERTA EAST CENTRAL 15
RED DEER REGIONAL 11
EDMONTON 9
DRUMHELLER 18
BIG COUNTRY 21
BANFF NATIONAL PARK 27
MOUNT VIEW 22
FOOTHILLS 24
SOUTHEASTERN ALBERTA 12
CALGARY 16
LETHBRIDGE 13
BARONS-EUREKA-WARNER 14
CHINOOK 17

NUMBER OF LIVE BIRTHS TO SINGLE TEENAGE (15-19) MOTHERS, 1988

HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	36
ALBERTA WEST CENTRAL	57
ATHABASCA	86
BANFF NATIONAL PARK	1
BARONS EUREKA-WARNER	22
BIG COUNTRY	5
CALGARY	425
CHINOOK	21
DRUMHELLER	26
EDMONTON	590
FOOTHILLS	20
FORT MCMURRAY	74
HIGH LEVEL-FORT VERMILION	53
JASPER NATIONAL PARK	3
LEDUC-STRATHCONA	58
LETHBRIDGE	45
MINBURN-VERMILION	17
MOUNT VIEW	32
NORTH EASTERN ALBERTA	83
PEACE RIVER	86
RED DEER REGIONAL	123
SOUTHEASTERN ALBERTA	59
SOUTH PEACE	98
STONY PLAIN-LAC STE. ANNE	68
STURGEON	75
VEGREVILLE	17
WETOKA	37
ALBERTA	2217

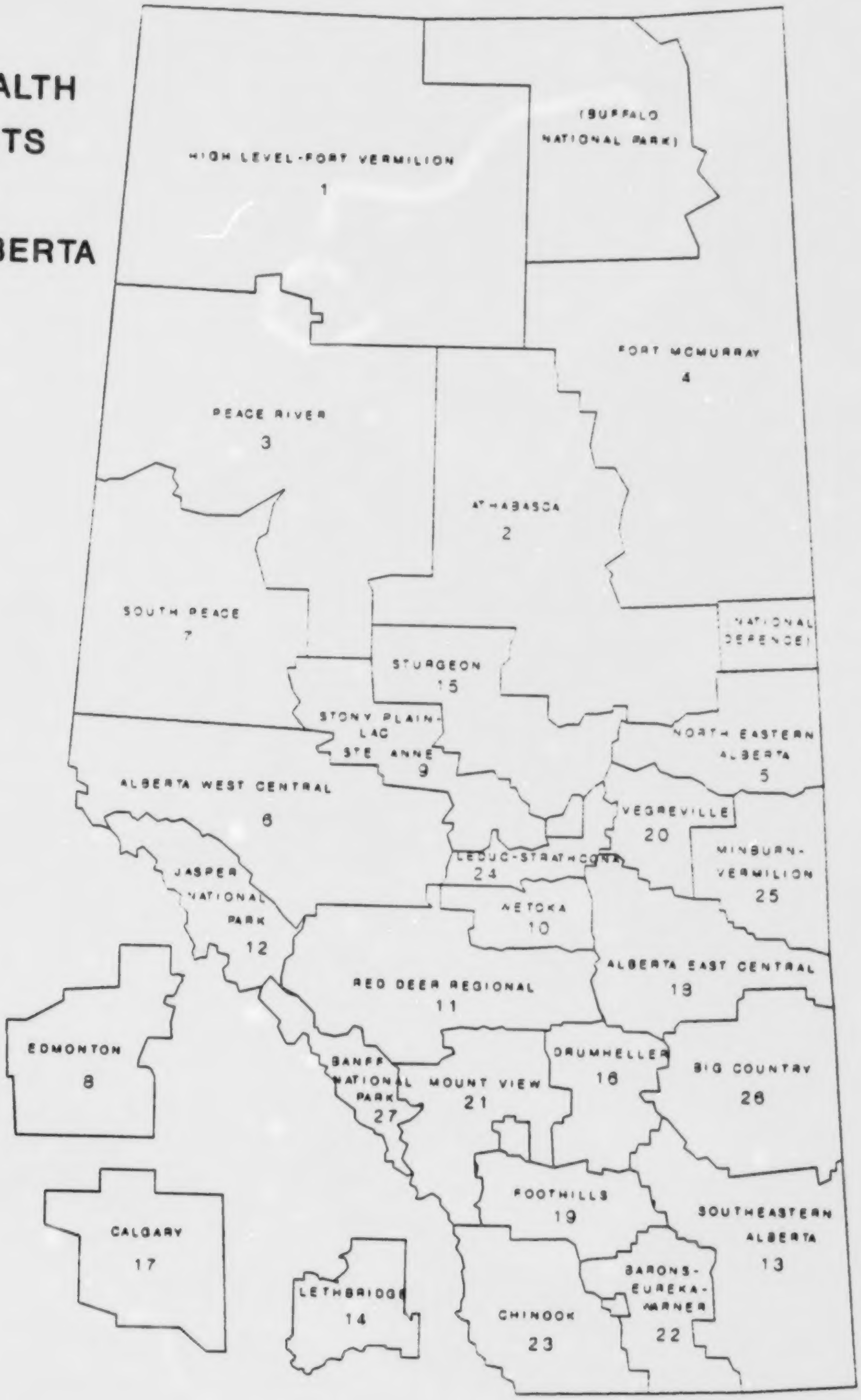
LIVE BIRTH RATES (PER 1,000 SINGLE TEENAGE MOTHERS), 1988

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	18.5	12.4	24.5	18	0.73	.
ALBERTA WEST CENTRAL	37.9	28.1	47.8	6	1.51	YES
ATHABASCA	62.0	48.9	75.1	2	2.47	YES
BANFF NATIONAL PARK	2.6	-2.5	7.6	27	0.10	.
BARONS EUREKA-WARNER	13.4	7.8	19.0	22	0.53	.
BIG COUNTRY	10.8	1.3	20.3	26	0.43	.
CALGARY	19.2	17.4	21.1	17	0.77	.
CHINOOK	12.8	7.3	18.3	23	0.51	.
DRUMHELLER	19.4	12.0	26.9	16	0.77	.
EDMONTON	29.4	27.0	31.7	8	1.17	YES
FOOTHILLS	16.7	9.4	24.0	19	0.66	.
FORT MCMURRAY	46.7	36.1	57.4	4	1.86	YES
HIGH LEVEL-FORT VERMILION	75.9	55.5	96.4	1	3.02	YES
JASPER NATIONAL PARK	22.1	-2.9	47.0	12	0.88	.
LEDUC-STRATHCONA	12.7	9.5	16.0	24	0.51	.
LETHBRIDGE	20.8	14.7	26.9	14	0.83	.
MINBURN-VERMILION	11.6	6.1	17.1	25	0.46	.
MOUNT VIEW	15.1	9.9	20.3	21	0.60	.
NORTH EASTERN ALBERTA	43.0	33.8	52.3	5	1.71	YES
PEACE RIVER	56.0	44.2	67.8	3	2.23	YES
RED DEER REGIONAL	27.2	22.4	32.0	11	1.08	.
SOUTHEASTERN ALBERTA	21.5	16.0	27.0	13	0.86	.
SOUTH PEACE	37.8	30.3	45.3	7	1.51	YES
STONY PLAIN-LAC STE. ANNE	28.5	21.8	35.3	9	1.14	.
STURGEON	20.2	15.6	24.7	15	0.80	.
VEGREVILLE	16.6	8.7	24.5	20	0.66	.
WETOKA	27.4	18.6	36.3	10	1.09	.
ALBERTA	**25.1**	**24.1**	**26.2**			

1.22

LIVE BIRTHS TO SINGLE TEENAGE MOTHERS, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
4
PEACE RIVER
3
ATHABASCA
2
SOUTH PEACE
7
NATIONAL DEFENCE)
STURGEON
15
STONY PLAIN-LAC STE ANNE
9
NORTH EASTERN ALBERTA
5
ALBERTA WEST CENTRAL
6
VEGREVILLE
20
MINBURN-VERMILION
25
LEDUC-STRATHCONA
24
JASPER NATIONAL PARK
12
WETOKA
10
ALBERTA EAST CENTRAL
18
RED DEER REGIONAL
11
EDMONTON
8
BANFF NATIONAL PARK
27
MOUNT VIEW
21
DRUMHELLER
16
BIG COUNTRY
26
FOOTHILLS
19
SOUTHEASTERN ALBERTA
13
CALGARY
17
BARONS-EUREKA-WARNER
22
LETHBRIDGE
14
CHINOOK
23

CHAPTER 2

STILLBIRTHS, INFANT MORTALITY AND PERINATAL DEATHS

1988

DESCRIPTION OF TABLES

This chapter presents a fairly detailed information on stillbirths and infant mortality in Alberta and the health units. First, data for stillbirths are provided. This is followed by infant mortality rates which also include perinatal, early neonatal, late neonatal and post-neonatal mortality. The following figure illustrates the concept of stillbirths and infant mortality.

FIGURE A:

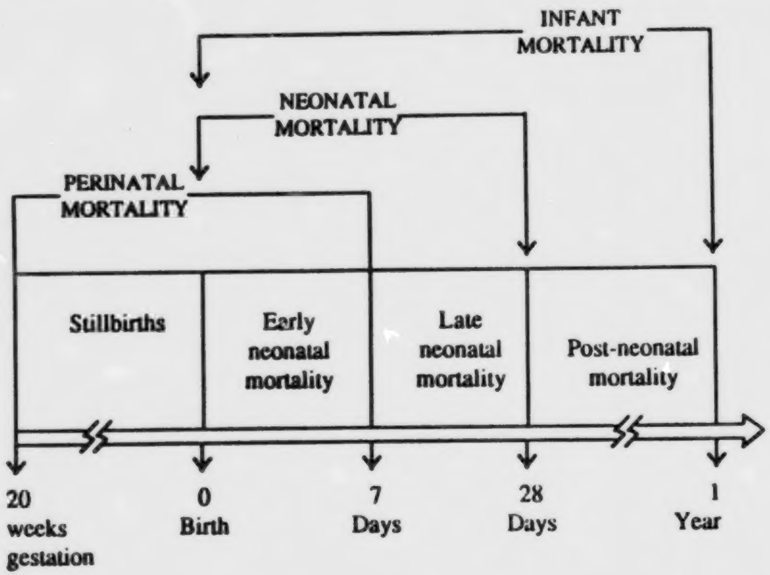


Table 2.1 and Table 2.2 give the number of stillbirths among married females by age group and health units. Once again, the totals for the health units and Alberta are provided. Similarly, Table 2.2 shows the number of stillbirths among single females.

Table 2.3 presents the stillbirth ratios (per 1,000 births) for the health units and Alberta. Stillbirth ratios are defined by:

$$\frac{\text{stillbirths}}{\text{live births}} \times 1{,}000$$

It is the number of stillbirths relative to the number of live births. Since stillbirth statistics are less reliable than might be wished, stillbirth ratios should be interpreted with caution.

Table 2.4 shows the number and rate of infant deaths for each health unit. Infant death rate is defined by:

$$\frac{\text{number of deaths under 1 Year of Age}}{\text{number of live births}} \times 1{,}000$$

It should be noted that in 1988 there was a total of 344 infant deaths in the province. Of these 10 occurred in Indian reserves and for another 6 infant deaths the health unit codes were not specified. Thus the infant deaths and the rates shown in this table deal with 95% of the total Alberta infant deaths.

Table 2.5 gives the age distribution of infant deaths (early neonatal, late neonatal, and post-neonatal deaths).

Table 2.6 gives the number of perinatal deaths and perinatal death rates (per 1,000 births). Perinatal deaths consist of stillbirths and deaths within the first week of life. The perinatal death rate is defined by:

$$\frac{\text{stillbirths and first week deaths}}{\text{stillbirths and live births}} \times 1{,}000$$

Since stillbirths and first week deaths are approximately equal, and since stillbirth statistics are somewhat unreliable, as mentioned earlier, perinatal death rates must be also interpreted with caution.

Table 2.7 and Table 2.8 show the number and percentage of three major causes of early neonatal mortality from 1986 to 1988 inclusive for males and females respectively.

Table 2.9 and Table 2.10 give the number and percentage of three major causes of late neonatal and post-natal mortality from 1986 to 1988 inclusive for males and females respectively.

The ICD-9 rubrics used in Tables 2.7 to 2.10 are as follows:

Congenital	740.0 - 759.9
Respiratory	769.0
SIDS	798.0
Other	All other codes

2.1

NUMBER OF STILLBIRTHS AMONG MARRIED FEMALES, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	1	0	0	0	0	0	1
ALBERTA WEST CENTRAL	0	0	1	4	0	0	0	0	5
ATHABASCA	0	0	2	1	0	0	0	0	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	2	5	1	0	0	0	8
BIG COUNTRY	0	0	0	1	3	0	0	0	4
CALGARY	0	0	10	26	10	4	0	0	50
CHINOOK	0	0	1	1	2	0	0	0	4
DRUMHELLER	0	0	0	2	1	0	0	0	3
EDMONTON	0	0	9	29	19	7	1	0	65
FOOTHILLS	0	0	0	0	1	0	0	0	1
FORT MCMURRAY	0	0	1	2	1	2	0	0	6
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	1	0	1	1	0	0	0	3
LETHBRIDGE	0	0	2	1	0	1	0	0	4
MINBURN-VERMILION	0	0	1	0	0	0	0	0	1
MOUNT VIEW	0	0	1	2	3	1	0	0	7
NORTH EASTERN ALBERTA	0	1	2	3	1	0	0	0	7
PEACE RIVER	0	0	3	1	0	0	0	0	4
RED DEER REGIONAL	0	1	4	3	2	0	0	0	10
SOUTHEASTERN ALBERTA	0	0	1	4	1	0	0	0	6
SOUTH PEACE	0	0	2	3	2	0	0	0	7
STONY PLAIN-LAC STE. ANNE	0	0	1	3	2	0	0	0	6
STURGEON	0	1	2	3	0	0	0	0	6
VEGREVILLE	0	0	1	1	0	0	0	0	2
WETOKA	0	0	0	3	1	0	0	0	4
ALBERTA	0	4	47	99	51	15	1	0	217

NUMBER OF STILLBIRTHS AMONG SINGLE FEMALES, 1988

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0
ATHABASCA	0	3	1	1	0	0	0	0	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0
CALGARY	0	2	3	2	2	0	0	0	9
CHINOOK	0	1	0	0	0	0	0	0	1
DRUMHELLER	0	0	0	1	1	0	0	0	2
EDMONTON	0	8	7	5	5	0	1	0	26
FOOTHILLS	0	0	0	0	0	1	0	0	1
FORT MCMURRAY	0	1	0	1	0	0	0	0	2
HIGH LEVEL-FORT VERMILION	0	1	0	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	1	0	0	0	0	0	0	1
LETHBRIDGE	0	2	2	1	0	0	0	0	5
MINBURN-VERMILION	0	0	1	0	0	0	0	0	1
MOUNT VIEW	0	0	0	1	1	0	0	0	2
NORTH EASTERN ALBERTA	0	2	0	1	1	0	0	0	4
PEACE RIVER	0	0	3	1	0	0	0	0	4
RED DEER REGIONAL	0	2	0	0	0	0	0	0	2
SOUTHEASTERN ALBERTA	0	1	0	0	0	0	0	0	1
SOUTH PEACE	0	2	1	2	0	0	0	0	5
STONY PLAIN-LAC STE. ANNE	0	3	0	0	0	0	0	0	3
STURGEON	1	0	0	0	0	0	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	0	0
WETOKA	0	1	0	0	0	1	0	0	2
ALBERTA	**1**	**30**	**18**	**15**	**10**	**2**	**1**	**0**	**77**

2.3

STILLBIRTH RATIOS (PER 1,000 BIRTHS), 1988

HEALTH UNIT	10-15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.2
ALBERTA WEST CENTRAL	0.0	0.0	4.4	14.1	0.0	0.0	0.0	0.0	6.7
ATHABASCA	0.0	27.0	13.8	4.9	0.0	0.0	0.0	0.0	10.7
BANFF NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARONS EUREKA-WARNER	0.0	0.0	11.1	17.3	6.5	0.0	0.0	0.0	11.2
BIG COUNTRY	0.0	0.0	0.0	14.5	65.2	0.0	0.0	0.0	19.7
CALGARY	0.0	3.6	6.0	6.3	3.6	4.5	0.0	0.0	5.1
CHINOOK	0.0	24.4	7.6	4.7	18.0	0.0	0.0	0.0	9.5
DRUMHELLER	0.0	0.0	0.0	12.6	18.2	0.0	0.0	0.0	9.0
EDMONTON	0.0	10.8	6.7	8.6	9.3	9.6	22.5	0.0	8.7
FOOTHILLS	0.0	0.0	0.0	0.0	7.3	40.0	0.0	0.0	4.0
FORT MCMURRAY	0.0	11.6	5.4	10.9	3.6	13.3	0.0	0.0	10.7
HIGH LEVEL-FORT VERMILION	0.0	15.9	34.7	0.0	0.0	0.0	0.0	0.0	2.3
JASPER NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEDUC-STRATHCONA	0.0	26.3	0.0	1.7	2.5	0.0	0.0	0.0	2.8
LETHBRIDGE	0.0	34.5	18.4	6.2	0.0	24.4	0.0	0.0	10.5
MINBURN-VERMILION	0.0	0.0	25.3	0.0	0.0	0.0	0.0	0.0	5.6
MOUNT VIEW	0.0	0.0	4.5	7.8	14.7	11.8	0.0	0.0	8.8
NORTH EASTERN ALBERTA	0.0	30.6	7.3	11.6	7.4	0.0	0.0	0.0	12.2
PEACE RIVER	0.0	0.0	23.6	8.1	0.0	0.0	0.0	0.0	10.7
RED DEER REGIONAL	0.0	19.0	7.8	3.5	5.1	0.0	0.0	0.0	5.9
SOUTHEASTERN ALBERTA	0.0	12.7	3.1	9.0	4.0	0.0	0.0	0.0	6.1
SOUTH PEACE	0.0	16.4	9.3	12.2	11.9	0.0	0.0	0.0	11.2
STONY PLAIN-LAC STE. ANNE	0.0	35.7	3.9	7.0	8.4	0.0	0.0	0.0	8.4
STURGEON	100.0	11.0	6.4	4.6	0.0	0.0	0.0	0.0	4.7
VEGREVILLE	0.0	0.0	11.2	6.6	0.0	0.0	0.0	0.0	5.5
WETOKA	0.0	18.5	0.0	14.9	9.4	32.3	0.0	0.0	10.3
ALBERTA	35.7	11.9	6.8	7.2	6.2	6.6	6.0	0.0	7.2

NUMBER OF INFANT DEATHS AND INFANT DEATH RATES
(PER 1,000 LIVE BIRTHS), 1986

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	4	4.9
ALBERTA WEST CENTRAL	9	12.0
ATHABASCA	3	4.6
BANFF NATIONAL PARK	1	15.9
BARONS EUREKA-WARNER	4	5.6
BIG COUNTRY	1	4.9
CALGARY	77	6.7
CHINOOK	3	5.7
DRUMHELLER	5	9.0
EDMONTON	96	9.2
FOOTHILLS	3	5.9
FORT MCMURRAY	10	13.3
HIGH LEVEL-FORT VERMILION	5	11.5
JASPER NATIONAL PARK	1	18.2
LEDUC-STRATHCONA	8	5.5
LETHBRIDGE	6	7.0
MINBURN-VERMILION	6	16.9
MOUNT VIEW	7	6.8
NORTH EASTERN ALBERTA	10	11.1
PEACE RIVER	6	8.0
RED DEER REGIONAL	15	7.4
SOUTHEASTERN ALBERTA	11	9.5
SOUTH PEACE	8	7.4
STONY PLAIN-LAC STE. ANNE	12	11.1
STURGEON	11	7.3
VEGREVILLE	2	5.5
WETOKA	4	6.9
ALBERTA	328	8.0

AGE-SPECIFIC DISTRIBUTION OF INFANT DEATHS, 1988

HEALTH UNIT	INFANT DEATHS Less than 7 Days	 7-27 days	 28 days and over	PERCENTAGE DISTRIBUTION Less than 7 days	 7-27 days	 28 days and over
ALBERTA EAST CENTRAL	2	0	2	50.0	0.0	50.0
ALBERTA WEST CENTRAL	5	0	4	55.6	0.0	44.4
ATHABASCA	2	1	0	66.7	33.3	0.0
BANFF NATIONAL PARK	0	0	1	0.0	0.0	100.0
BARONS EUREKA-WARNER	2	0	2	50.0	0.0	50.0
BIG COUNTRY	0	0	1	0.0	0.0	100.0
CALGARY	36	7	34	46.7	9.1	44.2
CHINOOK	0	0	3	0.0	0.0	100.0
DRUMHELLER	4	0	1	80.0	0.0	20.0
EDMONTON	41	11	44	42.7	11.5	45.8
FOOTHILLS	1	0	2	33.3	0.0	66.7
FORT MCMURRAY	5	2	3	50.0	20.0	30.0
HIGH LEVEL-FORT VERMILION	5	0	0	100.0	0.0	0.0
JASPER NATIONAL PARK	0	0	1	0.0	0.0	100.0
LEDUC-STRATHCONA	6	0	2	75.0	0.0	25.0
LETHBRIDGE	1	0	5	16.7	0.0	83.3
MINBURN-VERMILION	1	1	4	16.7	16.7	66.6
MOUNT VIEW	3	1	3	42.9	14.9	42.8
NORTH EASTERN ALBERTA	5	0	5	50.0	0.0	50.0
PEACE RIVER	3	0	3	50.0	0.0	50.0
RED DEER REGIONAL	7	1	7	46.7	6.6	46.7
SOUTHEASTERN ALBERTA	5	1	5	45.5	9.1	45.4
SOUTH PEACE	3	0	5	37.5	0.0	62.5
STONY PLAIN-LAC STE. ANNE	7	4	1	58.3	33.4	8.3
STURGEON	7	0	4	63.6	0.0	36.4
VEGREVILLE	0	0	2	0.0	0.0	100.0
WETOKA	0	0	4	0.0	0.0	100.0
ALBERTA	151	29	148	46.1	8.8	45.1

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2.6

NUMBER OF PERINATAL DEATHS AND PERINATAL DEATH RATES (PER 1,000 LIVE BIRTHS), 1988

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	3	3.6
ALBERTA WEST CENTRAL	10	13.3
ATHABASCA	9	13.7
BANFF NATIONAL PARK	0	0.0
BARONS EUREKA-WARNER	10	14.0
BIG COUNTRY	4	19.7
CALGARY	95	8.3
CHINOOK	5	9.5
DRUMHELLER	9	16.2
EDMONTON	132	12.6
FOOTHILLS	3	5.9
FORT MCMURRAY	13	17.3
HIGH LEVEL-FORT VERMILION	6	13.9
JASPER NATIONAL PARK	0	0.0
LEDUC-STRATHCONA	10	6.9
LETHBRIDGE	10	11.7
MINBURN-VERMILION	3	8.5
MOUNT VIEW	12	11.7
NORTH EASTERN ALBERTA	16	17.8
PEACE RIVER	11	14.7
RED DEER REGIONAL	19	9.4
SOUTHEASTERN ALBERTA	12	10.4
SOUTH PEACE	15	14.0
STONY PLAIN-LAC STE. ANNE	16	14.9
STURGEON	14	9.3
VEGREVILLE	2	5.5
WETOKA	6	10.3
ALBERTA	445	10.8

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), MALES
1986 TO 1988

HEALTH UNIT	CONGENITAL NO.	CONGENITAL %	RESPIRATORY NO.	RESPIRATORY %	SIDS NO.	SIDS %	OTHER NO.	OTHER %	TOTAL NO.	TOTAL %
ALBERTA EAST CENTRAL	1	25.0	0	0.0	0	0.0	3	75.0	4	100.0
ALBERTA WEST CENTRAL	1	20.0	0	0.0	0	0.0	4	80.0	5	100.0
ATHABASCA	1	50.0	0	0.0	0	0.0	1	50.0	2	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS EUREKA-WARNER	1	20.0	1	20.0	0	0.0	3	60.0	5	100.0
BIG COUNTRY	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CALGARY	22	36.1	11	18.0	0	0.0	28	45.9	61	100.0
CHINOOK	0	0.0	1	33.3	0	0.0	2	66.7	3	100.0
DRUMHELLER	1	20.0	1	20.0	0	0.0	3	60.0	5	100.0
EDMONTON	27	35.5	14	18.4	0	0.0	35	46.1	76	100.0
FOOTHILLS	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
FORT MCMURRAY	1	20.0	2	40.0	0	0.0	2	40.0	5	100.0
HIGH LEVEL-FORT VERMILION	3	75.0	0	0.0	0	0.0	1	25.0	4	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LEDUC-STRATHCONA	6	54.6	0	0	0	0.0	5	45.4	10	100.0
LETHBRIDGE	0	0.0	3	60.0	0	0.0	2	40.0	5	100.0
MINBURN-VERMILION	2	33.3	1	16.7	0	0.0	3	50.0	6	100.0
MOUNT VIEW	5	50.0	2	20.0	0	0.0	3	30.0	10	100.0
NORTH EASTERN ALBERTA	4	40.0	1	10.0	0	0.0	5	50.0	10	100.0
PEACE RIVER	6	75.0	0	0.0	0	0.0	2	25.0	8	100.0
RED DEER REGIONAL	10	58.8	3	17.7	0	0.0	4	23.5	17	100.0
SOUTHEASTERN ALBERTA	5	83.3	0	0.0	0	0.0	1	16.7	6	100.0
SOUTH PEACE	4	66.7	0	0.0	0	0.0	2	33.3	6	100.0
STONY PLAIN-LAC STE. ANNE	5	50.0	0	0.0	0	0.0	5	50.0	10	100.0
STURGEON	3	60.0	1	20.0	0	0.0	1	20.0	5	100.0
VEGREVILLE	2	40.0	0	0.0	0	0.0	3	60.0	5	100.0
WETOKA	2	66.7	1	33.3	0	0.0	0	0.0	3	100.0
ALBERTA	113	41.4	42	15.4	0	0.0	118	43.2	273	100.0

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), FEMALES
1986 TO 1988

HEALTH UNIT	CONGENITAL NO.	CONGENITAL %	RESPIRATORY NO.	RESPIRATORY %	SIDS NO.	SIDS %	OTHER NO.	OTHER %	TOTAL NO.	TOTAL %
ALBERTA EAST CENTRAL	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
ALBERTA WEST CENTRAL	0	0.0	1	33.3	0	0.0	2	66.7	3	100.0
ATHABASCA	1	25.0	1	25.0	0	0.0	2	50.0	4	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS EUREKA-WARNER	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
BIG COUNTRY	0	0.0	1	100.0	0	0.0	0	0.0	1	100.0
CALGARY	15	29.4	7	13.7	0	0.0	29	56.9	51	100.0
CHINOOK	1	50.0	0	0.0	0	0.0	1	50.0	2	100.0
DRUMHELLER	0	0.0	1	50.0	0	0.0	1	50.0	2	100.0
EDMONTON	20	37.0	10	18.5	0	0.0	24	44.4	54	100.0
FOOTHILLS	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
FORT MCMURRAY	2	40.0	0	0.0	0	0.0	3	60.0	5	100.0
HIGH LEVEL-FORT VERMILION	2	33.3	0	0.0	0	0.0	4	66.7	6	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LEDUC-STRATHCONA	5	71.4	0	0.0	0	0.0	2	28.6	7	100.0
LETHBRIDGE	1	20.0	1	20.0	0	0.0	3	60.0	5	100.0
MINBURN-VERMILION	0	0.0	1	25.0	0	0.0	3	75.0	4	100.0
MOUNT VIEW	2	40.0	1	20.0	0	0.0	2	40.0	5	100.0
NORTH EASTERN ALBERTA	0	0.0	0	0.0	0	0.0	2	100.0	2	100.0
PEACE RIVER	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
RED DEER REGIONAL	2	40.0	2	40.0	0	0.0	1	20.0	5	100.0
SOUTHEASTERN ALBERTA	1	33.3	1	0.0	0	0.0	2	66.7	3	100.0
SOUTH PEACE	2	50.0	0	0.0	0	0.0	2	50.0	4	100.0
STONY PLAIN-LAC STE. ANNE	5	62.5	1	12.5	0	0.0	2	25.0	8	100.0
STURGEON	2	33.3	1	16.7	0	0.0	3	50.0	6	100.0
VEGREVILLE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
WETOKA	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ALBERTA	64	35.0	30	16.4	0	0.0	89	48.6	183	100.0

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), MALES
1986 TO 1988

	CONGENITAL		RESPIRATORY		SIDS		OTHER		TOTAL	
HEALTH UNIT	**NO.**	**%**	**NO.**	**%**	**NO.**	**%**	**NO.**	**%**	**NO.**	**%**
ALBERTA EAST CENTRAL	2	28.6	0	0.0	3	42.8	2	28.6	7	100.0
ALBERTA WEST CENTRAL	2	25.0	1	12.5	2	25.0	3	37.5	8	100.0
ATHABASCA	0	0.0	1	14.3	4	57.1	2	28.6	7	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS EUREKA-WARNER	0	0.0	0	0.0	2	50.0	2	50.0	4	100.0
BIG COUNTRY	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CALGARY	12	16.7	1	1.4	39	54.2	20	27.8	72	100.0
CHINOOK	0	0.0	0	0.0	2	50.0	2	50.0	4	100.0
DRUMHELLER	2	66.7	0	0.0	1	33.3	0	0.0	3	100.0
EDMONTON	25	25.5	3	3.1	36	36.7	34	34.7	98	100.0
FOOTHILLS	1	50.0	0	0.0	0	0.0	1	50.0	2	100.0
FORT MCMURRAY	0	0.0	0	0.0	1	20.0	4	80.0	5	100.0
HIGH LEVEL-FORT VERMILION	1	20.0	0	0.0	1	20.0	3	60.0	5	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
LEDUC-STRATHCONA	0	0.0	0	0.0	3	75.0	1	25.0	4	100.0
LETHBRIDGE	0	0.0	1	9.1	7	63.6	3	27.3	11	100.0
MINBURN-VERMILION	4	50.0	0	0.0	2	25.0	2	25.0	8	100.0
MOUNT VIEW	1	14.3	0	0.0	3	42.9	3	42.9	7	100.0
NORTH EASTERN ALBERTA	1	10.0	0	0.0	5	50.0	4	40.0	10	100.0
PEACE RIVER	0	0.0	0	20.0	1	25.0	3	75.0	4	100.0
RED DEER REGIONAL	1	10.0	1	10.0	3	30.0	5	50.0	10	100.0
SOUTHEASTERN ALBERTA	5	55.6	0	0.0	1	11.1	3	33.3	9	100.0
SOUTH PEACE	1	9.1	0	0.0	5	45.5	5	45.4	11	100.0
STONY PLAIN-LAC STE. ANNE	1	20.0	0	0.0	2	40.0	2	40.0	5	100.0
STURGEON	1	20.0	0	0.0	1	20.0	3	60.0	5	100.0
VEGREVILLE	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
WETOKA	3	37.5	0	0.0	2	25.0	3	37.5	8	100.0
ALBERTA	**63**	**20.4**	**8**	**2.6**	**126**	**40.8**	**112**	**36.2**	**309**	**100.0**

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), FEMALES
1986 TO 1988

HEALTH UNIT	CONGENTITAL		RESPIRATORY		SIDS		OTHER		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	0	0.0	0	0.0	2	100.0	0	0.0	2	100.0
ALBERTA WEST CENTRAL	1	20.0	0	0.0	2	40.0	2	40.0	5	100.0
ATHABASCA	0	0.0	0	0.0	1	100.0	0	0.0	1	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS EUREKA-WARNER	0	0.0	0	0.0	2	100.0	0	0.0	2	100.0
BIG COUNTRY	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
CALGARY	15	30.0	0	0.0	9	18.0	26	52.0	50	100.0
CHINOOK	2	40.0	0	0.0	1	20.0	2	40.0	5	100.0
DRUMHELLER	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
EDMONTON	21	25.6	1	1.2	30	36.6	30	36.6	82	100.0
FOOTHILLS	0	0.0	0	0.0	1	100.0	0	0.0	1	100.0
FORT MCMURRAY	0	0.0	0	0.0	1	20.0	4	80.0	5	100.0
HIGH LEVEL-FORT VERMILION	0	0.0	0	0.0	1	33.3	2	66.7	3	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	1	50.0	1	50.0	2	100.0
LEDUC-STRATHCONA	2	16.7	1	8.3	5	41.7	4	33.3	12	100.0
LETHBRIDGE	1	11.1	0	0.0	5	55.6	3	33.3	9	100.0
MINBURN-VERMILION	1	50.0	0	0.0	1	50.0	0	0.0	2	100.0
MOUNT VIEW	0	0.0	0	0.0	2	66.7	1	33.3	3	100.0
NORTH EASTERN ALBERTA	1	33.3	0	0.0	1	33.3	1	33.4	3	100.0
PEACE RIVER	0	0.0	0	0.0	2	40.0	3	60.0	5	100.0
RED DEER REGIONAL	3	27.3	0	0.0	4	36.4	4	36.4	11	100.0
SOUTHEASTERN ALBERTA	1	33.3	0	0.0	2	66.7	0	0.0	3	100.0
SOUTH PEACE	1	20.0	0	0.0	1	20.0	3	60.0	5	100.0
STONY PLAIN-LAC STE. ANNE	8	53.3	1	6.7	2	13.3	4	26.7	15	100.0
STURGEON	2	33.3	0	0.0	2	33.3	2	33.3	6	100.0
VEGREVILLE	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
WETOKA	1	20.0	0	0.0	3	60.0	1	20.0	5	100.0
ALBERTA	64	26.4	3	1.2	81	33.3	95	39.1	243	100.0

CHAPTER 3

MALE DEATHS

1988

DESCRIPTION OF TABLES

Chapter 3 deals with deaths in the male population for the year 1988 by health units of Alberta. The usual approach to presenting mortality data by age group uses five-year age groups in the range from 5 to 85. For technical reasons it was not possible to fit this many columns on a page, and so somewhat broader age groups were used. These have been defined by aggregating five-year age groups in such a way as to cover meaningful periods in the lifespan. For example, 5-14 for the school years, 15-24 for early adulthood, etc.

The age-specific male death rate (per 100,000 males) is defined by:

$$\frac{\text{number of deaths to males in age group}}{\text{number of males in age group}} \times 100{,}000$$

The age-standardized death rates in Chapter 3 have been standardized to the estimated male population of Alberta in 1988. So for each health unit, the male age-standardized death rate for a given cause equals the death rate that would have been observed in that health unit if it had had the age distribution of males in Alberta as a whole in 1988.

The format for Chapter 3 is basically the same as that used in Chapter 1. Following a description of the population by age group there is a series of four page units, each dealing with a specific cause of death. Note that death rates should be interpreted with considerable caution. Because there are far fewer deaths than live births per year, and because the deaths are spread out over both sexes and all age groups, the tables in Chapter 3 are much sparser looking than those of Chapter 1. As a result, the confidence intervals for the age-standardized death rates are generally quite wide. To an even greater degree this remark applies to confidence intervals for age-specific death rates (not shown). When a confidence interval lower limit extended into the negative numbers it has been reported as such; another approach would have been to arbitrarily set it equal to zero. In certain cases several health units were found to have identical (age-standardized) rates. When this happened, ranks for these health units were assigned randomly rather than giving each of the health units involved the same intermediate rank. For the most part ties were due to several health units having no deaths due to a cause, and hence a rate of zero. Note that death rates are given per 100,000 males, whereas live birth rates are per 1,000 females.

The causes of death selected for study along with the rubrics according to the International Classification of Diseases - ninth revision (ICD-9), are as follows:

CAUSE OF DEATH	ICD-9 RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Prostrate Cancer	185
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstuctive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for prostate cancer which has been placed at the end of the Chapter. Because of this arrangement the tables and figures in this Chapter correspond by page numbers.

In an attempt to concentrate even more attention on premature death, one might calculate years of life lost using only those deaths which occurred before a certain age and eventually consider only the years of life lost before this age limit. The indicator "potential years of life lost (PYLL)" is designed to take into account both of these two possibilities and is thus an excellent indicator of premature mortality.

More specifically, the indicator PYLL provides an estimate of the total years of life lost before age 70 by persons deceased between their 1st and 70th birthdays. For each death considered, the duration of life lost before age 70 is defined as the time interval separating death from the 70th birthday. For a given cause, the total potential years of life lost depend only on the number and mean age of its victims between age 1 and 70*.

Thus, Table 3.59 is an enhancement for this year and it shows potential years of life lost from selected preventable causes. Chart 3.60 and Chart 3.61 are presented to illustrate this data.

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* Demographic and Health Indicators, Statistics Canada, Cat # 82-543E.

NUMBER IN POPULATION, MALES, 1988

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	430	1779	4347	4131	4257	3436	2533	2512	2253	1559	27237
ALBERTA WEST CENTRAL	338	1475	3788	3364	4183	2955	2005	1371	715	408	20602
ATHABASCA	336	1250	3097	2787	2657	2038	1401	1261	721	513	16061
BANFF NATIONAL PARK	38	171	327	1015	1127	618	318	248	103	56	4021
BARONS EUREKA-WARNER	346	1625	3807	3348	3190	2522	1935	1608	1056	709	20146
BIG COUNTRY	120	428	1084	1022	1137	711	634	683	462	302	6583
CALGARY	5225	21512	44011	51297	75016	51255	29913	22760	12560	6498	320047
CHINOOK	329	1490	3814	3120	2996	2520	1787	1674	1423	1008	20161
DRUMHELLER	262	1164	2857	2681	2776	2395	1407	1372	1111	710	16735
EDMONTON	4799	19345	37480	48214	63778	39263	26570	22602	13144	7590	282785
FOOTHILLS	241	1203	2872	2277	2669	2686	1649	1350	1001	689	16637
FORT MCMURRAY	362	1688	3718	3148	4641	3546	1489	535	112	71	19310
HIGH LEVEL-FORT VERMILION	192	824	1736	1359	1307	833	503	344	175	78	7351
JASPER NATIONAL PARK	26	100	171	477	622	289	130	143	48	61	2067
LEDUC-STRATHCONA	805	3699	10299	8294	8471	9933	5455	3322	1694	896	52868
LETHBRIDGE	381	1868	4398	4670	5164	3902	2558	2411	2020	1342	28714
MINBURN-VERMILION	329	1428	3269	2996	3453	2542	1746	1601	1238	904	19506
MOUNT VIEW	497	2317	5507	4432	5736	5044	3037	2224	1311	870	30975
NORTH EASTERN ALBERTA	450	1972	4307	4174	4625	3104	2203	1723	1267	727	24552
PEACE RIVER	344	1593	3585	3391	3327	2447	1906	1389	838	697	19517
RED DEER REGIONAL	1000	4529	9771	9530	12248	8493	5244	4179	3076	1914	59984
SOUTHEASTERN ALBERTA	612	2546	6327	6028	7152	4995	3388	3061	2441	1376	37926
SOUTH PEACE	598	2635	5989	5455	6412	4604	2886	2158	1212	907	32856
STONY PLAIN-LAC STE. ANNE	578	2588	6500	4965	5943	5685	3415	2299	1236	717	33926
STURGEON	754	3564	9208	7321	8272	8483	4815	3371	1952	1206	48945
VEGREVILLE	195	864	2299	1889	2110	1922	1415	1465	1490	1115	14764
WETOKA	297	1261	3046	2796	2924	2593	1801	1693	1277	935	18623
ALBERTA	19884	84918	187614	194181	246193	178814	112143	89359	55936	33858	1202900

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AGE DISTRIBUTION (IN %) MALES, 1988

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.6	6.5	16.0	15.2	15.6	12.6	9.3	0.2	8.3	5.7
ALBERTA WEST CENTRAL	1.6	7.2	18.4	16.3	20.3	14.3	9.7	6.6	3.5	2.0
ATHABASCA	2.1	7.8	19.3	17.4	16.5	12.7	8.7	7.8	4.5	3.2
BANFF NATIONAL PARK	1.0	4.2	8.1	25.2	28.0	15.4	7.9	6.2	2.6	1.4
BARONS EUREKA-WARNER	1.7	8.1	18.9	16.6	15.8	12.5	9.6	8.0	5.2	3.5
BIG COUNTRY	1.8	6.5	16.5	15.5	17.3	10.8	9.6	10.4	7.0	4.6
CALGARY	1.6	6.7	13.7	16.0	23.4	16.0	9.4	7.1	3.9	2.0
CHINOOK	1.6	7.4	18.9	15.5	14.9	12.5	8.9	8.3	7.1	5.0
DRUMHELLER	1.6	7.0	17.1	16.0	16.6	14.3	8.4	8.2	6.6	4.2
EDMONTON	1.7	6.8	13.2	17.1	22.6	13.9	9.4	8.0	4.7	2.7
FOOTHILLS	1.5	7.2	17.3	13.7	16.0	16.1	9.9	8.1	6.0	4.1
FORT MCMURRAY	1.9	8.7	19.2	16.3	24.0	18.4	7.7	2.8	0.6	0.4
HIGH LEVEL-FORT VERMILION	2.6	11.2	23.6	18.5	17.8	11.3	6.8	4.7	2.3	1.1
JASPER NATIONAL PARK	1.3	4.8	8.3	23.1	30.1	14.0	6.3	6.9	2.3	2.9
LEDUC-STRATHCONA	1.5	7.0	19.5	15.7	16.0	18.8	10.3	6.3	3.2	1.7
LETHBRIDGE	1.3	6.5	15.3	16.3	18.0	13.6	8.9	8.4	7.0	4.7
MINBURN-VERMILION	1.7	7.3	16.8	15.4	17.7	13.0	9.0	8.2	6.3	4.6
MOUNT VIEW	1.6	7.5	17.8	14.3	18.5	16.3	9.8	7.2	4.2	2.8
NORTH EASTERN ALBERTA	1.8	8.0	17.5	17.0	18.8	12.6	9.0	7.0	5.2	3.0
PEACE RIVER	1.8	8.2	18.4	17.4	17.1	12.5	9.8	7.1	4.3	3.6
RED DEER REGIONAL	1.7	7.5	16.3	15.9	20.4	14.2	8.7	7.0	5.1	3.2
SOUTHEASTERN ALBERTA	1.6	6.7	16.7	15.9	18.9	13.2	8.9	8.1	6.4	3.6
SOUTH PEACE	1.8	8.0	18.2	16.6	19.5	14.0	8.8	6.6	3.7	2.8
STONY PLAIN-LAC STE. ANNE	1.7	7.6	19.2	14.6	17.5	16.8	10.1	6.8	3.6	2.1
STURGEON	1.5	7.3	18.8	15.0	16.9	17.3	9.8	6.9	4.0	2.5
VEGREVILLE	1.3	5.9	15.6	12.8	14.3	13.0	9.6	9.9	10.1	7.5
WETOKA	1.8	6.8	16.4	15.0	15.7	13.9	9.7	9.1	6.9	5.0
ALBERTA	1.6	7.1	15.6	16.1	20.5	14.9	9.3	7.4	4.7	2.8

NUMBER OF MALE DEATHS, 1988
ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	3	1	4	3	3	12	11	23	82	155	297
ALBERTA WEST CENTRAL	7	0	2	1	8	9	6	22	31	45	131
ATHABASCA	2	0	0	8	7	4	10	10	18	46	105
BANFF NATIONAL PARK	0	0	0	0	0	0	1	3	3	0	7
BARONS EUREKA-WARNER	2	1	1	5	4	3	6	26	27	54	129
BIG COUNTRY	0	0	0	4	1	0	2	6	16	21	50
CALGARY	48	4	10	46	75	84	108	267	373	627	1642
CHINOOK	1	0	0	5	9	5	5	21	45	84	175
DRUMHELLER	3	1	1	5	4	8	8	13	37	83	163
EDMONTON	52	7	10	58	78	80	138	320	446	719	1908
FOOTHILLS	1	0	0	2	0	5	11	10	33	55	117
FORT MCMURRAY	6	0	0	4	8	2	5	6	3	7	41
HIGH LEVEL-FORT VERMILION	2	1	0	4	4	4	4	2	5	8	34
JASPER NATIONAL PARK	1	0	0	0	1	1	1	5	1	2	12
LEDUC-STRATHCONA	2	2	1	13	11	13	16	39	53	86	236
LETHBRIDGE	3	0	0	7	5	7	15	24	60	140	261
MINBURN-VERMILION	5	0	1	3	3	5	7	20	29	59	132
MOUNT VIEW	6	1	4	7	10	7	9	26	35	88	193
NORTH EASTERN ALBERTA	8	0	3	12	8	11	8	16	47	68	181
PEACE RIVER	5	0	4	11	7	5	12	20	33	55	152
RED DEER REGIONAL	11	3	5	13	16	16	26	58	108	165	421
SOUTHEASTERN ALBERTA	9	0	4	13	9	11	7	30	74	153	310
SOUTH PEACE	4	1	4	9	11	4	15	23	25	79	175
STONY PLAIN-LAC STE. ANNE	5	0	2	11	7	12	12	21	38	58	166
STURGEON	6	0	0	11	9	10	16	35	56	125	268
VEGREVILLE	1	0	0	3	4	2	5	19	38	100	172
WETOKA	1	0	0	10	5	4	7	21	44	88	180
ALBERTA	194	22	56	268	307	324	471	1086	1760	3170	7658

3.4

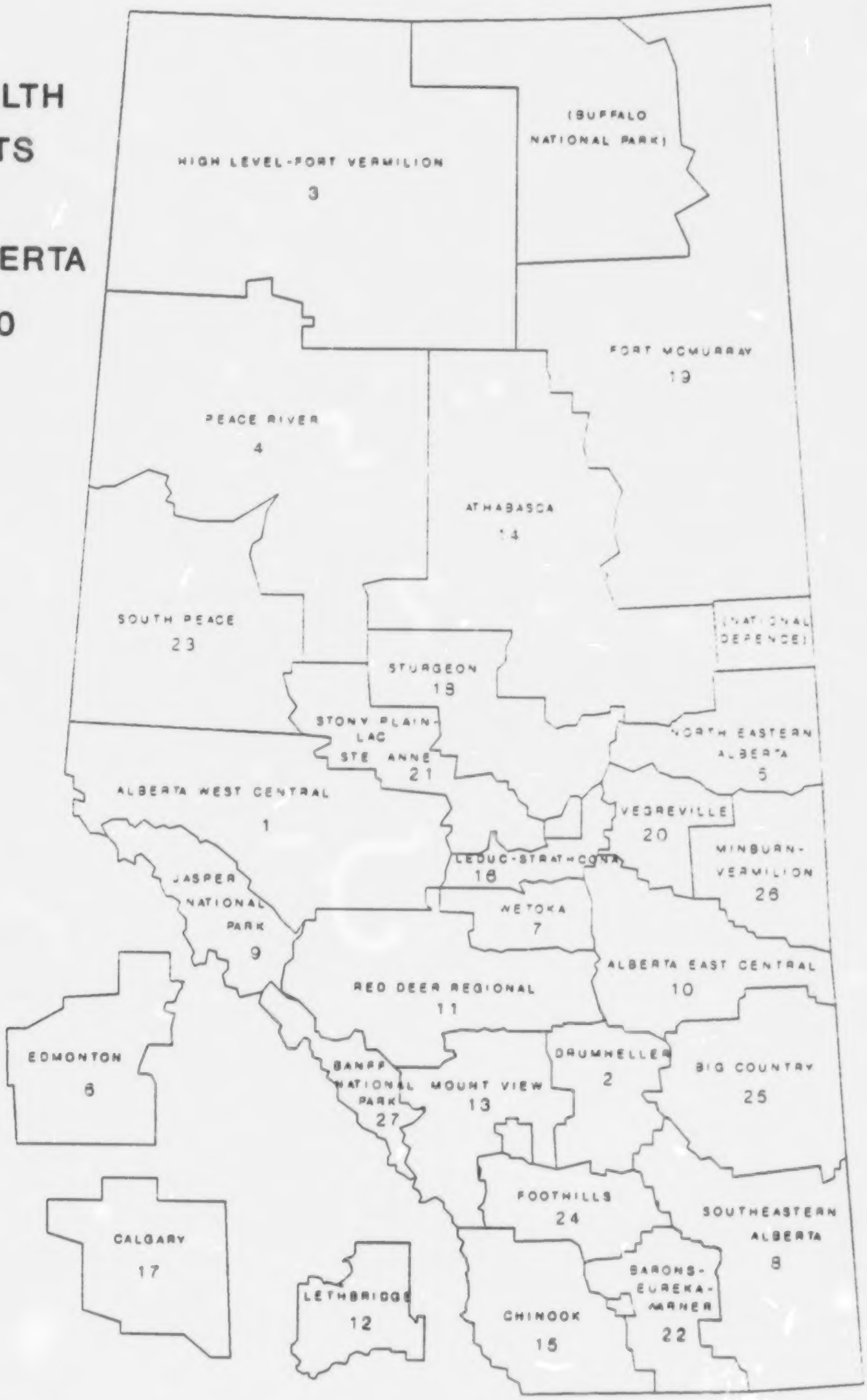
AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	698	56	92	73	70	349	434	916	3640	9942
ALBERTA WEST CENTRAL	2071	0	53	30	191	305	299	1605	4336	11029
ATHABASCA	595	0	0	287	263	196	714	793	2497	8967
BANFF NATIONAL PARK	0	0	0	0	0	0	314	1210	2913	0
BARONS EUREKA-WARNER	578	62	26	149	125	119	310	1617	2557	7616
BIG COUNTRY	0	0	0	391	88	0	315	878	3463	6954
CALGARY	919	19	23	90	100	164	361	1173	2970	9649
CHINOOK	304	0	0	160	300	198	280	1254	3162	8333
DRUMHELLER	1145	86	35	186	144	334	569	948	3330	11690
EDMONTON	1084	36	27	120	122	204	519	1416	3393	9473
FOOTHILLS	415	0	0	88	0	186	667	741	3297	7983
FORT MCMURRAY	1657	0	0	127	172	56	336	1121	2679	9859
HIGH LEVEL-FORT VERMILION	1042	121	0	294	306	480	795	581	2857	10256
JASPER NATIONAL PARK	3846	0	0	0	161	346	769	3497	2083	3279
LEDUC-STRATHCONA	248	54	10	157	130	131	293	1174	3129	9598
LETHBRIDGE	787	0	0	150	97	179	586	995	2970	10432
MINBURN-VERMILION	1520	0	31	100	87	197	401	1249	2342	6527
MOUNT VIEW	1207	43	73	158	174	139	296	1169	2670	10115
NORTH EASTERN ALBERTA	1778	0	70	287	173	354	363	929	3710	9354
PEACE RIVER	1453	0	112	324	210	204	630	1440	3938	7891
RED DEER REGIONAL	1100	66	51	136	131	188	496	1388	3511	8621
SOUTHEASTERN ALBERTA	1471	0	63	216	126	220	207	980	3032	11119
SOUTH PEACE	669	38	67	165	172	87	520	1066	2063	8710
STONY PLAIN-LAC STE. ANNE	865	0	31	222	118	211	351	913	3074	8089
STURGEON	796	0	0	150	109	118	332	1038	2869	10365
VEGREVILLE	513	0	0	159	190	104	353	1297	2550	8969
WETOKA	337	0	0	358	171	154	389	1240	3446	9412
ALBERTA	**978**	**26**	**30**	**138**	**125**	**181**	**420**	**1215**	**3146**	**9363**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	666	586	745	10	1.05	.
ALBERTA WEST CENTRAL	791	654	928	1	1.24	YES
ATHABASCA	633	511	755	14	0.99	.
BANFF NATIONAL PARK	255	62	447	27	0.40	.
BARONS EUREKA-WARNER	568	469	666	22	0.89	.
BIG COUNTRY	533	382	683	25	0.84	.
CALGARY	610	580	640	17	0.96	.
CHINOOK	623	526	720	15	0.98	.
DRUMHELLER	747	630	864	2	1.17	YES
EDMONTON	677	647	708	6	1.06	YES
FOOTHILLS	544	444	644	24	0.85	.
FORT MCMURRAY	608	346	871	19	0.95	.
HIGH LEVEL-FORT VERMILION	746	474	1018	3	1.17	.
JASPER NATIONAL PARK	669	276	1061	9	1.05	.
LEDUC-STRATHCONA	611	531	691	16	0.96	.
LETHBRIDGE	644	564	724	12	1.01	.
MINBURN-VERMILION	516	426	606	26	0.81	.
MOUNT VIEW	639	549	730	13	1.00	.
NORTH EASTERN ALBERTA	713	609	818	5	1.12	.
PEACE RIVER	738	620	857	4	1.16	YES
RED DEER REGIONAL	663	599	726	11	1.04	.
SOUTHEASTERN ALBERTA	673	598	749	8	1.06	.
SOUTH PEACE	568	483	652	23	0.89	.
STONY PLAIN-LAC STE. ANNE	582	492	671	21	0.91	.
STURGEON	610	537	684	18	0.96	.
VEGREVILLE	589	491	687	20	0.92	.
WETOKA	675	573	777	7	1.06	.
ALBERTA	**637**	**622**	**651**			

HEALTH UNITS OF ALBERTA 1990


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION
3
FORT MCMURRAY
19
PEACE RIVER
4
ATHABASCA
14
SOUTH PEACE
23
(NATIONAL DEFENCE)
STURGEON
18
STONY PLAIN-LAC STE ANNE
21
NORTH EASTERN ALBERTA
5
ALBERTA WEST CENTRAL
1
VEGREVILLE
20
MINBURN-VERMILION
26
LEDUC-STRATHCONA
16
JASPER NATIONAL PARK
9
WETOKA
7
ALBERTA EAST CENTRAL
10
RED DEER REGIONAL
11
EDMONTON
6
DRUMHELLER
2
BIG COUNTRY
25
BANFF NATIONAL PARK
27
MOUNT VIEW
13
FOOTHILLS
24
SOUTHEASTERN ALBERTA
8
CALGARY
17
BARONS-EUREKA-WARNER
22
LETHBRIDGE
12
CHINOOK
15

3.6

ALL CAUSES, MALES, 1988

NUMBER OF MALE DEATHS, 1988
ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	2	1	0	2	3	7	32	32	79
ALBERTA WEST CENTRAL	0	0	0	0	1	3	1	8	9	14	36
ATHABASCA	0	0	0	0	0	0	0	3	1	13	17
BANFF NATIONAL PARK	0	0	0	0	0	0	1	2	0	0	3
BARONS EUREKA-WARNER	0	0	0	1	1	0	3	10	8	12	35
BIG COUNTRY	0	0	0	0	0	0	1	2	2	7	12
CALGARY	0	0	1	5	6	11	43	106	115	122	409
CHINOOK	0	0	0	0	1	2	2	8	10	13	36
DRUMHELLER	0	0	0	0	0	1	2	6	12	17	38
EDMONTON	1	0	3	2	5	9	35	106	144	159	464
FOOTHILLS	0	0	0	0	0	0	3	5	15	15	38
FORT MCMURRAY	0	0	0	0	2	0	2	4	1	1	10
HIGH LEVEL-FORT VERMILION	0	0	0	0	1	1	2	1	2	2	9
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	1	0	1
LEDUC-STRATHCONA	0	1	1	0	1	2	3	11	21	22	62
LETHBRIDGE	0	0	0	0	1	1	5	10	18	28	63
MINBURN-VERMILION	0	0	0	0	0	0	3	7	10	13	33
MOUNT VIEW	0	0	0	0	3	1	2	10	14	21	51
NORTH EASTERN ALBERTA	0	0	0	0	0	0	2	5	12	12	31
PEACE RIVER	0	0	0	0	0	2	1	3	6	16	28
RED DEER REGIONAL	0	0	0	0	1	2	9	26	31	36	105
SOUTHEASTERN ALBERTA	0	0	1	0	0	2	3	9	26	26	67
SOUTH PEACE	0	0	0	1	0	1	2	6	7	21	38
STONY PLAIN-LAC STE. ANNE	0	0	0	0	1	4	4	7	18	9	43
STURGEON	0	0	0	0	0	3	4	13	17	33	70
VEGREVILLE	0	0	0	0	0	0	1	9	14	31	55
WETOKA	0	0	0	0	0	0	4	6	13	16	39
ALBERTA	1	1	8	10	24	47	141	390	559	691	1872

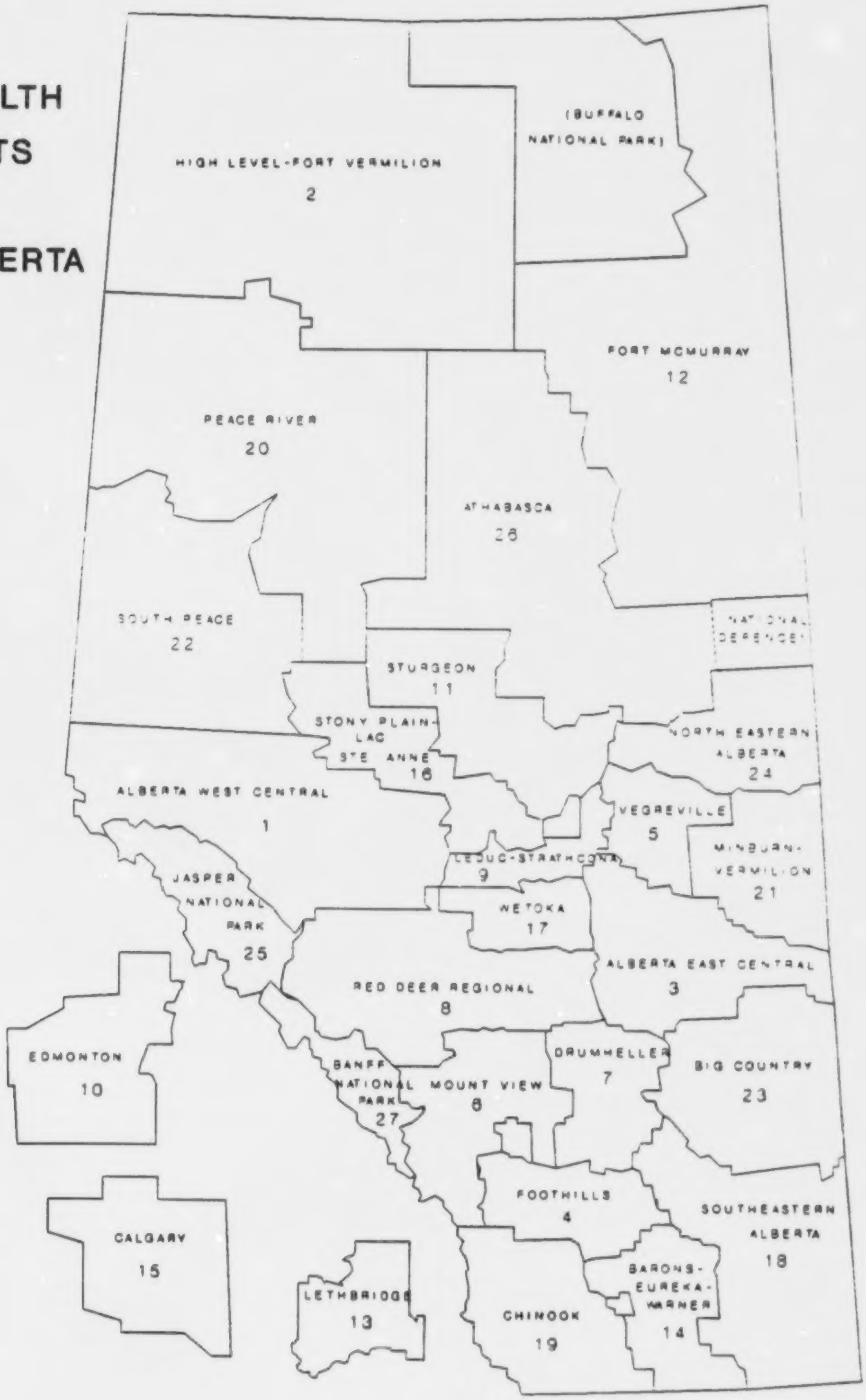
AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	46	24	0	58	118	279	1420	2053
ALBERTA WEST CENTRAL	0	0	0	0	24	102	50	584	1259	3431
ATHABASCA	0	0	0	0	0	0	0	238	139	2534
BANFF NATIONAL PARK	0	0	0	0	0	0	314	806	0	0
BARONS EUREKA-WARNER	0	0	0	30	31	0	155	622	758	1693
BIG COUNTRY	0	0	0	0	0	0	158	293	433	2318
CALGARY	0	0	2	10	8	21	144	466	916	1878
CHINOOK	0	0	0	0	33	79	112	478	703	1290
DRUMHELLER	0	0	0	0	0	42	142	437	1080	2394
EDMONTON	21	0	8	4	8	23	132	469	1096	2095
FOOTHILLS	0	0	0	0	0	0	182	370	1499	2177
FORT MCMURRAY	0	0	0	0	43	0	134	748	893	1408
HIGH LEVEL-FORT VERMILION	0	0	0	0	77	120	398	291	1143	2564
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	2083	0
LEDUC-STRATHCONA	0	27	10	0	12	20	55	331	1240	2455
LETHBRIDGE	0	0	0	0	19	26	195	415	891	2086
MINBURN-VERMILION	0	0	0	0	0	0	172	437	808	1438
MOUNT VIEW	0	0	0	0	52	20	66	450	1068	2414
NORTH EASTERN ALBERTA	0	0	0	0	0	0	91	290	947	1651
PEACE RIVER	0	0	0	0	0	82	52	216	716	2296
RED DEER REGIONAL	0	0	0	0	8	24	172	622	1008	1881
SOUTHEASTERN ALBERTA	0	0	16	0	0	40	89	294	1065	1890
SOUTH PEACE	0	0	0	18	0	22	69	278	578	2315
STONY PLAIN-LAC STE. ANNE	0	0	0	0	17	70	117	304	1456	1255
STURGEON	0	0	0	0	0	35	83	386	871	2736
VEGREVILLE	0	0	0	0	0	0	71	614	940	2780
WETOKA	0	0	0	0	0	0	222	354	1018	1711
ALBERTA	5	1	4	5	10	26	126	436	999	2041

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	175	135	216	3	1.12	.
ALBERTA WEST CENTRAL	223	150	297	1	1.43	YES
ATHABASCA	95	50	141	26	0.61	.
BANFF NATIONAL PARK	89	-12	190	27	0.57	.
BARONS EUREKA-WARNER	155	103	206	14	0.99	.
BIG COUNTRY	122	52	191	23	0.78	.
CALGARY	150	135	165	15	0.96	.
CHINOOK	134	88	179	19	0.86	.
DRUMHELLER	170	115	224	7	1.09	.
EDMONTON	164	149	179	10	1.05	.
FOOTHILLS	175	119	232	4	1.12	.
FORT MCMURRAY	158	31	285	12	1.01	.
HIGH LEVEL-FORT VERMILION	217	69	366	2	1.39	.
JASPER NATIONAL PARK	97	-93	287	25	0.62	.
LEDUC-STRATHCONA	165	123	207	9	1.06	.
LETHBRIDGE	157	117	197	13	1.01	.
MINBURN-VERMILION	127	83	171	21	0.81	.
MOUNT VIEW	171	124	218	6	1.10	.
NORTH EASTERN ALBERTA	121	78	163	24	0.78	.
PEACE RIVER	131	82	180	20	0.84	.
RED DEER REGIONAL	167	135	199	8	1.07	.
SOUTHEASTERN ALBERTA	141	107	175	18	0.90	.
SOUTH PEACE	125	85	165	22	0.80	.
STONY PLAIN-LAC STE. ANNE	150	105	196	16	0.96	.
STURGEON	159	122	197	11	1.02	.
VEGREVILLE	174	126	223	5	1.12	.
WETOKA	143	97	188	17	0.92	.
ALBERTA	156	149	163			

HEALTH UNITS OF ALBERTA



HIGH LEVEL-FORT VERMILION
2
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
12
PEACE RIVER
20
ATHABASCA
26
SOUTH PEACE
22
NATIONAL DEFENCE
STURGEON
11
STONY PLAIN-LAC STE ANNE
16
NORTH EASTERN ALBERTA
24
ALBERTA WEST CENTRAL
1
VEGREVILLE
5
MINBURN-VERMILION
21
LEDUC-STRATHCONA
9
JASPER NATIONAL PARK
25
WETOKA
17
ALBERTA EAST CENTRAL
3
RED DEER REGIONAL
8
EDMONTON
10
DRUMHELLER
7
BIG COUNTRY
23
BANFF NATIONAL PARK
27
MOUNT VIEW
6
FOOTHILLS
4
SOUTHEASTERN ALBERTA
18
CALGARY
15
BARONS-EUREKA-WARNER
14
LETHBRIDGE
13
CHINOOK
19

3.10 ALL CANCER, MALES, 1988

NUMBER OF MALE DEATHS, 1988
COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	0	1	4	8	14
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	2	2
ATHABASCA	0	0	0	0	0	0	0	0	0	1	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	2	0	2	4
BIG COUNTRY	0	0	0	0	0	0	0	0	1	1	2
CALGARY	0	0	0	0	0	3	6	13	14	13	49
CHINOOK	0	0	0	0	0	0	0	0	0	1	1
DRUMHELLER	0	0	0	0	0	0	0	2	4	2	8
EDMONTON	0	0	0	0	1	2	3	14	16	15	51
FOOTHILLS	0	0	0	0	0	0	0	0	0	1	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	1	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	3	2	1	6
LETHBRIDGE	0	0	0	0	0	0	0	2	1	3	6
MINBURN-VERMILION	0	0	0	0	0	0	2	1	0	2	5
MOUNT VIEW	0	0	0	0	0	0	0	1	1	3	5
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	2	1	3
PEACE RIVER	0	0	0	0	0	0	0	0	0	1	1
RED DEER REGIONAL	0	0	0	0	0	0	1	2	4	2	9
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	1	1	2
SOUTH PEACE	0	0	0	0	0	0	0	1	0	1	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	4	1	6
STURGEON	0	0	0	0	0	0	0	1	0	4	5
VEGREVILLE	0	0	0	0	0	0	0	2	2	5	9
WETOKA	0	0	0	0	0	0	0	2	1	1	4
ALBERTA	0	0	0	0	1	6	12	48	57	73	197

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AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	29	0	40	178	513
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	490
ATHABASCA	0	0	0	0	0	0	0	0	0	195
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	124	0	282
BIG COUNTRY	0	0	0	0	0	0	0	0	216	331
CALGARY	0	0	0	0	0	6	20	57	111	200
CHINOOK	0	0	0	0	0	0	0	0	0	99
DRUMHELLER	0	0	0	0	0	0	0	146	360	282
EDMONTON	0	0	0	0	2	5	11	62	122	198
FOOTHILLS	0	0	0	0	0	0	0	0	0	145
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	1282
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	90	118	112
LETHBRIDGE	0	0	0	0	0	0	0	83	50	224
MINBURN-VERMILION	0	0	0	0	0	0	115	62	0	221
MOUNT VIEW	0	0	0	0	0	0	0	45	76	345
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	158	138
PEACE RIVER	0	0	0	0	0	0	0	0	0	143
RED DEER REGIONAL	0	0	0	0	0	0	19	48	130	104
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	41	73
SOUTH PEACE	0	0	0	0	0	0	0	46	0	110
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	43	324	139
STURGEON	0	0	0	0	0	0	0	30	0	332
VEGREVILLE	0	0	0	0	0	0	0	137	134	448
WETOKA	0	0	0	0	0	0	0	118	78	107
ALBERTA	0	0	0	0	0	3	11	54	102	216

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	30	14	46	3	1.88	.
ALBERTA WEST CENTRAL	14	-5	33	15	0.88	.
ATHABASCA	5	-5	16	20	0.31	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS EUREKA-WARNER	17	0	34	10	1.06	.
BIG COUNTRY	19	-8	46	7	1.19	.
CALGARY	18	13	23	8	1.13	.
CHINOOK	3	-3	8	24	0.19	.
DRUMHELLER	35	11	60	2	2.19	.
EDMONTON	18	13	23	9	1.13	.
FOOTHILLS	4	-4	12	21	0.25	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	36	-35	107	1	2.25	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	15	3	28	12	0.94	.
LETHBRIDGE	15	3	27	13	0.94	.
MINBURN-VERMILION	22	2	41	5	1.38	.
MOUNT VIEW	17	2	31	11	1.06	.
NORTH EASTERN ALBERTA	11	-1	24	18	0.69	.
PEACE RIVER	4	-4	12	22	0.25	.
RED DEER REGIONAL	14	5	24	16	0.88	.
SOUTHEASTERN ALBERTA	4	-2	9	23	0.25	.
SOUTH PEACE	7	-3	16	19	0.44	.
STONY PLAIN-LAC STE. ANNE	22	4	40	6	1.38	.
STURGEON	12	1	22	17	0.75	.
VEGREVILLE	29	9	49	4	1.81	.
WETOKA	15	0	31	14	0.94	.
ALBERTA	16	14	19			

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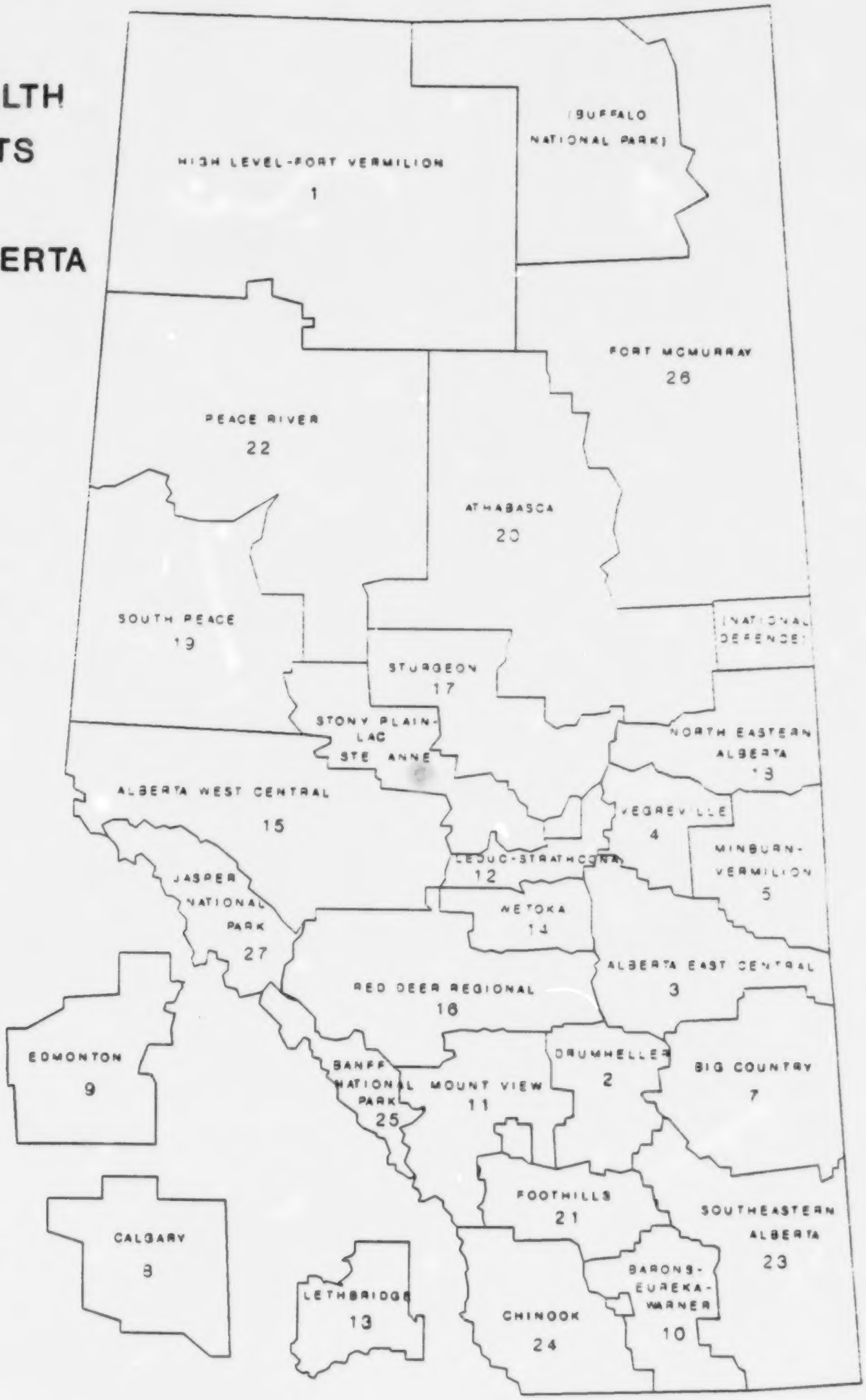
COLON CANCER, MALES, 1988

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION 1
FORT MCMURRAY 26
PEACE RIVER 22
ATHABASCA 20
(NATIONAL DEFENCE)
SOUTH PEACE 19
STURGEON 17
STONY PLAIN-LAC STE ANNE 6
NORTH EASTERN ALBERTA 18
ALBERTA WEST CENTRAL 15
VEGREVILLE 4
MINBURN-VERMILION 5
LEDUC-STRATHCONA 12
JASPER NATIONAL PARK 27
WETOKA 14
ALBERTA EAST CENTRAL 3
RED DEER REGIONAL 16
EDMONTON 9
DRUMHELLER 2
BIG COUNTRY 7
BANFF NATIONAL PARK 25
MOUNT VIEW 11
FOOTHILLS 21
SOUTHEASTERN ALBERTA 23
CALGARY 8
BARONS-EUREKA-WARNER 10
LETHBRIDGE 13
CHINOOK 24

NUMBER OF MALE DEATHS, 1988
LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	3	5	11	20
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	3	3	3	9
ATHABASCA	0	0	0	0	0	0	0	1	0	2	3
BANFF NATIONAL PARK	0	0	0	0	0	0	1	1	0	0	2
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	1	4	4	9
BIG COUNTRY	0	0	0	0	0	0	0	1	0	2	3
CALGARY	0	0	0	0	0	0	10	35	3	28	110
CHINOOK	0	0	0	0	0	0	0	4	4	2	10
DRUMHELLER	0	0	0	0	0	1	0	1	2	4	8
EDMONTON	0	0	0	0	0	1	11	39	55	43	149
FOOTHILLS	0	0	0	0	0	0	0	1	5	0	6
FORT MCMURRAY	0	0	0	0	0	0	0	2	1	0	3
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	1	1	1	1	1	5
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	2	5	7	5	19
LETHBRIDGE	0	0	0	0	0	0	2	2	6	6	16
MINBURN-VERMILION	0	0	0	0	0	0	0	4	2	4	10
MOUNT VIEW	0	0	0	0	0	0	1	2	6	4	13
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	2	4	4	10
PEACE RIVER	0	0	0	0	0	0	0	1	0	6	7
RED DEER REGIONAL	0	0	0	0	0	1	3	8	11	8	31
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	2	4	9	7	22
SOUTH PEACE	0	0	0	0	0	0	0	2	1	6	9
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	1	2	4	2	3	12
STURGEON	0	0	0	0	0	1	1	7	5	13	27
VEGREVILLE	0	0	0	0	0	0	0	1	3	5	9
WETOKA	0	0	0	0	0	0	1	0	4	10	15
ALBERTA	0	0	0	0	0	6	38	135	177	181	537

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AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	39	119	222	706
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	219	420	735
ATHABASCA	0	0	0	0	0	0	0	79	0	390
BANFF NATIONAL PARK	0	0	0	0	0	0	314	403	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	62	379	564
BIG COUNTRY	0	0	0	0	0	0	0	146	0	662
CALGARY	0	0	0	0	0	0	33	154	295	431
CHINOOK	0	0	0	0	0	0	0	239	281	198
DRUMHELLER	0	0	0	0	0	42	0	73	180	563
EDMONTON	0	0	0	0	0	3	41	173	418	567
FOOTHILLS	0	0	0	0	0	0	0	74	500	0
FORT MCMURRAY	0	0	0	0	0	0	0	374	893	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	120	199	291	571	1282
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	37	151	413	558
LETHBRIDGE	0	0	0	0	0	0	78	83	297	447
MINBURN-VERMILION	0	0	0	0	0	0	0	250	162	442
MOUNT VIEW	0	0	0	0	0	0	33	90	458	460
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	116	316	550
PEACE RIVER	0	0	0	0	0	0	0	72	0	861
RED DEER REGIONAL	0	0	0	0	0	12	57	191	358	418
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	59	131	369	509
SOUTH PEACE	0	0	0	0	0	0	0	93	83	662
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	18	59	174	162	418
STURGEON	0	0	0	0	0	12	21	208	256	1078
VEGREVILLE	0	0	0	0	0	0	0	68	201	448
WETOKA	0	0	0	0	0	0	56	0	313	1070
ALBERTA	**0**	**0**	**0**	**0**	**0**	**3**	**34**	**151**	**316**	**535**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	43	23	62	12	0.96	.
ALBERTA WEST CENTRAL	56	19	94	5	1.24	.
ATHABASCA	17	-2	36	26	0.38	.
BANFF NATIONAL PARK	59	-23	141	4	1.31	.
BARONS EUREKA-WARNER	38	13	63	18	0.84	.
BIG COUNTRY	30	-4	63	21	0.67	.
CALGARY	40	33	48	13	0.89	.
CHINOOK	36	13	59	19	0.80	.
DRUMHELLER	36	11	61	20	0.80	.
EDMONTON	52	44	61	6	1.16	YES
FOOTHILLS	29	6	52	23	0.64	.
FORT MCMURRAY	69	-21	159	2	1.53	.
HIGH LEVEL-FORT VERMILION	121	11	230	1	2.69	.
JASPER NATIONAL PARK	0	0	0	27	0-00	.
LEDUC-STRATHCONA	50	27	72	7	1.11	.
LETHBRIDGE	40	20	60	14	0.89	.
MINBURN-VERMILION	39	14	63	16	0.87	.
MOUNT VIEW	44	20	68	11	0.98	.
NORTH EASTERN ALBERTA	39	15	63	17	0.87	.
PEACE RIVER	30	8	52	22	0.67	.
RED DEER REGIONAL	50	32	67	8	1.11	.
SOUTHEASTERN ALBERTA	47	27	66	10	1.04	.
SOUTH PEACE	29	10	49	24	0.64	.
STONY PLAIN-LAC STE. ANNE	40	17	63	15	0.89	.
STURGEON	61	38	85	3	1.36	.
VEGREVILLE	27	9	45	25	0.60	.
WETOKA	50	24	75	9	1.11	.
ALBERTA	**45**	**41**	**48**			

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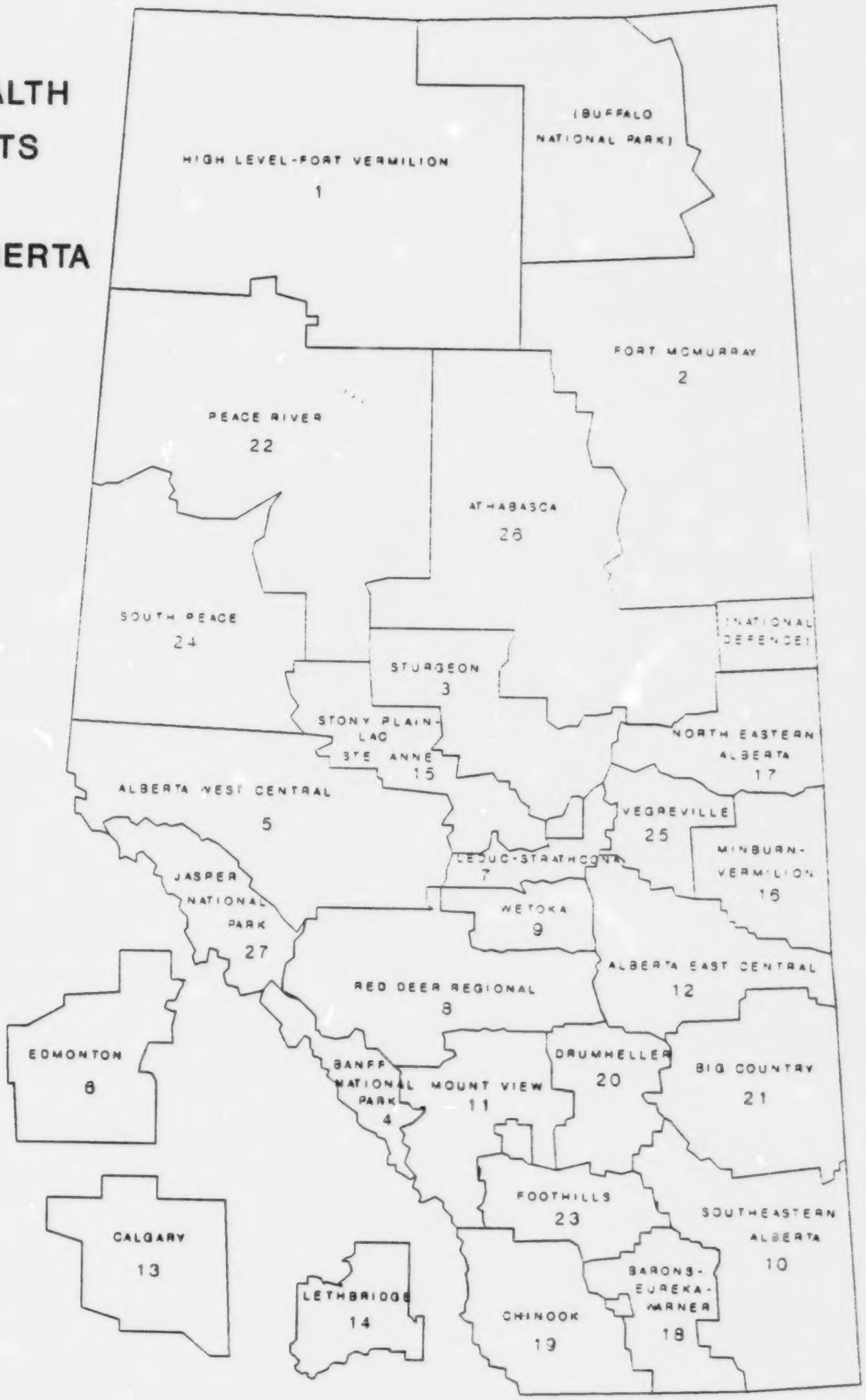
LUNG CANCER, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
2
PEACE RIVER
22
ATHABASCA
26
SOUTH PEACE
24
(NATIONAL DEFENCE)
STURGEON
3
STONY PLAIN-LAC STE ANNE
15
NORTH EASTERN ALBERTA
17
ALBERTA WEST CENTRAL
5
VEGREVILLE
25
MINBURN-VERMILION
16
JASPER NATIONAL PARK
27
LEDUC-STRATHCONA
7
WETOKA
9
ALBERTA EAST CENTRAL
12
RED DEER REGIONAL
8
EDMONTON
6
DRUMHELLER
20
BIG COUNTRY
21
BANFF NATIONAL PARK
4
MOUNT VIEW
11
FOOTHILLS
23
SOUTHEASTERN ALBERTA
10
CALGARY
13
BARONS-EUREKA-WARNER
18
LETHBRIDGE
14
CHINOOK
19

NUMBER OF MALE DEATHS, 1988
DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	5	5
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	0	1
ATHABASCA	0	0	0	0	0	0	1	0	0	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	1	0	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	0	1	3	3	9	17
CHINOOK	0	0	0	0	2	0	0	1	1	0	4
DRUMHELLER	0	0	0	0	0	0	0	0	1	0	1
EDMONTON	0	0	0	1	1	2	0	3	7	10	24
FOOTHILLS	0	0	0	0	0	0	0	0	0	1	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	1	1
LETHBRIDGE	0	0	0	0	0	0	0	0	1	3	4
MINBURN-VERMILION	0	0	0	0	1	0	0	1	1	1	4
MOUNT VIEW	0	0	0	0	0	0	0	0	1	1	2
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	0	0	2	3
PEACE RIVER	0	0	0	0	0	0	0	0	2	2	4
RED DEER REGIONAL	0	0	0	0	0	0	0	1	2	2	5
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	2	2	4
SOUTH PEACE	0	0	0	0	1	1	1	0	1	3	7
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	1	1
STURGEON	0	0	0	0	0	0	0	0	1	3	4
VEGREVILLE	0	0	0	0	0	0	0	0	1	2	3
WETOKA	0	0	0	0	1	0	0	0	0	1	2
ALBERTA	0	0	0	1	7	4	3	10	25	49	99

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
DIABETES MELLITUS

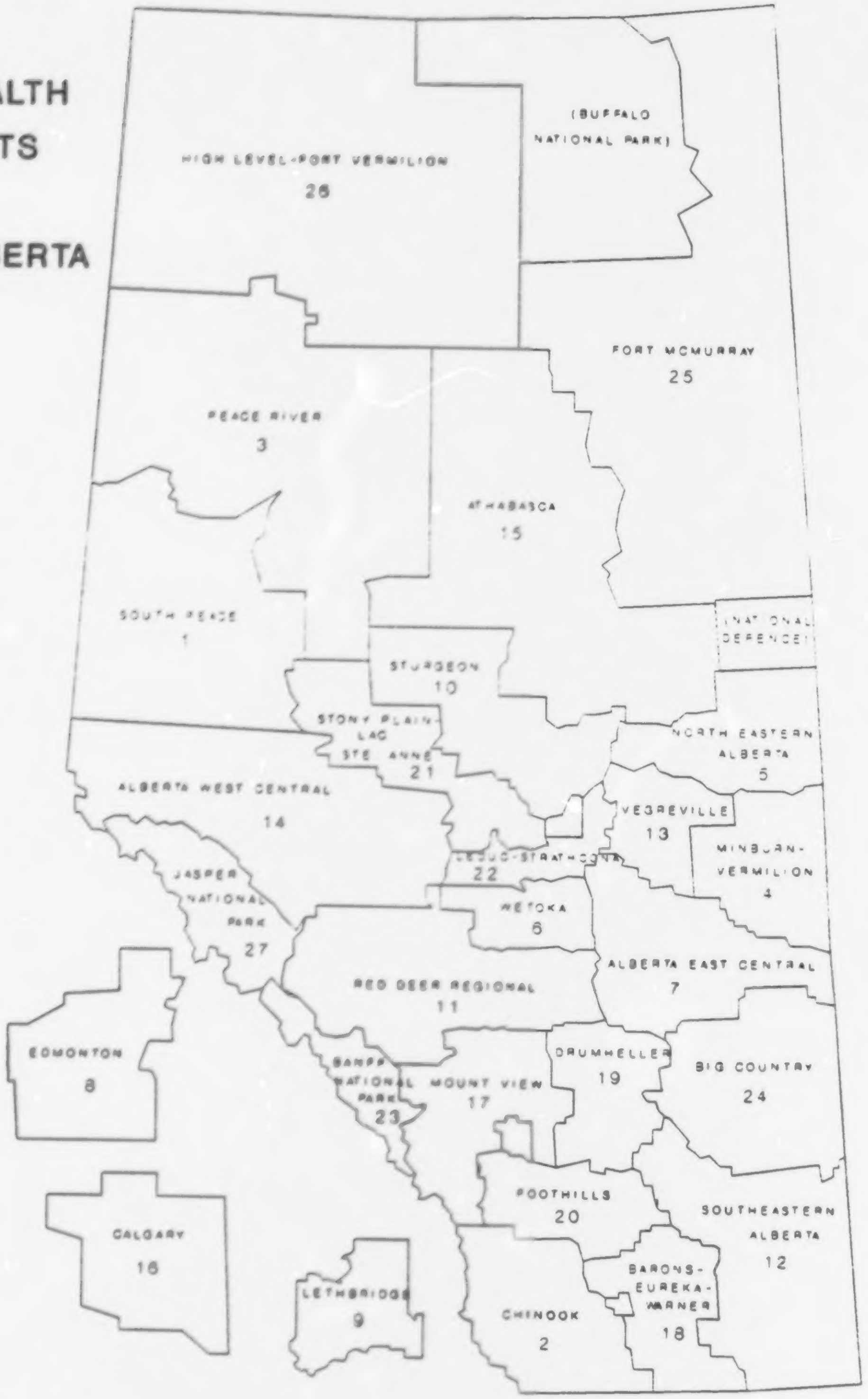
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	321
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	140	0
ATHABASCA	0	0	0	0	0	0	71	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	62	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	0	3	13	24	139
CHINOOK	0	0	0	0	67	0	0	60	70	0
DRUMHELLER	0	0	0	0	0	0	0	0	90	0
EDMONTON	0	0	0	2	2	5	0	13	53	132
FOOTHILLS	0	0	0	0	0	0	0	0	0	145
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	112
LETHBRIDGE	0	0	0	0	0	0	0	0	50	224
MINBURN-VERMILION	0	0	0	0	29	0	0	62	81	111
MOUNT VIEW	0	0	0	0	0	0	0	0	76	115
NORTH EASTERN ALBERTA	0	0	0	0	0	32	0	0	0	275
PEACE RIVER	0	0	0	0	0	0	0	0	239	287
RED DEER REGIONAL	0	0	0	0	0	0	0	24	65	104
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	82	145
SOUTH PEACE	0	0	0	0	16	22	35	0	83	331
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	139
STURGEON	0	0	0	0	0	0	0	0	51	249
VEGREVILLE	0	0	0	0	0	0	0	0	67	179
WETOKA	0	0	0	0	34	0	0	0	0	107
ALBERTA	**0**	**0**	**0**	**1**	**3**	**2**	**3**	**11**	**45**	**145**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	9	1	17	7	1.13	.
ALBERTA WEST CENTRAL	7	-6	19	14	0.88	.
ATHABASCA	7	-6	20	15	0.88	.
BANFF NATIONAL PARK	0	0	0	23	0.00	.
BARONS EUREKA-WARNER	5	-4	14	18	0.63	.
BIG COUNTRY	0	0	0	24	0.00	.
CALGARY	7	3	10	16	0.88	.
CHINOOK	21	0	43	2	2.63	.
DRUMHELLER	4	-4	12	19	0.50	.
EDMONTON	9	5	12	8	1.13	.
FOOTHILLS	4	-4	12	20	0.50	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	3	-3	9	22	0.38	.
LETHBRIDGE	9	0	17	9	1.13	.
MINBURN-VERMILION	17	0	35	4	2.13	.
MOUNT VIEW	7	-3	16	17	0.88	.
NORTH EASTERN ALBERTA	13	-2	27	5	1.63	.
PEACE RIVER	19	0	38	3	2.38	.
RED DEER REGIONAL	8	1	15	11	1.00	.
SOUTHEASTERN ALBERTA	8	0	16	12	1.00	.
SOUTH PEACE	23	6	40	1	2.88	YES
STONY PLAIN-LAC STE. ANNE	4	-4	12	21	0.50	.
STURGEON	9	0	19	10	1.13	.
VEGREVILLE	8	-1	17	13	1.00	.
WETOKA	10	-5	25	6	1.25	.
ALBERTA	8	7	10			

DIABETES MELLITUS, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
26
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
25
PEACE RIVER
3
ATHABASCA
15
SOUTH PEACE
1
(NATIONAL DEFENCE)
STURGEON
10
STONY PLAIN-LAC STE. ANNE
21
NORTH EASTERN ALBERTA
5
ALBERTA WEST CENTRAL
14
VEGREVILLE
13
MINBURN-VERMILION
4
JASPER NATIONAL PARK
27
LEDUC-STRATHCONA
22
WETOKA
6
RED DEER REGIONAL
11
ALBERTA EAST CENTRAL
7
EDMONTON
8
BANFF NATIONAL PARK
23
MOUNT VIEW
17
DRUMHELLER
19
BIG COUNTRY
24
FOOTHILLS
20
SOUTHEASTERN ALBERTA
12
CALGARY
16
BARONS-EUREKA-WARNER
18
LETHBRIDGE
9
CHINOOK
2

NUMBER OF MALE DEATHS, 1988
ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	2	4	9	22	41	78
ALBERTA WEST CENTRAL	0	0	0	0	1	0	2	11	16	12	42
ATHABASCA	0	0	0	0	0	0	1	4	8	12	25
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	0	1
BARONS EUREKA-WARNER	0	0	0	0	0	0	1	7	11	15	34
BIG COUNTRY	0	0	0	0	0	0	1	3	4	6	14
CALGARY	0	0	0	0	2	19	31	61	97	151	361
CHINOOK	0	0	0	0	0	1	1	6	18	33	59
DRUMHELLER	0	0	0	0	0	0	2	4	14	26	46
EDMONTON	0	0	0	1	1	9	31	86	120	180	428
FOOTHILLS	0	0	0	0	0	0	1	4	12	11	28
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	1	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	1	2	2	5
JASPER NATIONAL PARK	0	0	0	0	1	0	0	3	0	0	4
LEDUC-STRATHCONA	0	0	0	0	0	0	5	10	12	30	57
LETHBRIDGE	0	0	0	0	0	0	2	4	16	37	59
MINBURN-VERMILION	0	0	0	0	0	1	1	5	8	14	29
MOUNT VIEW	0	0	0	0	0	0	3	6	10	33	52
NORTH EASTERN ALBERTA	0	0	0	0	1	0	4	4	17	19	45
PEACE RIVER	0	0	0	0	1	0	5	8	12	14	40
RED DEER REGIONAL	0	0	0	0	0	4	7	11	38	38	98
SOUTHEASTERN ALBERTA	0	0	0	0	0	2	3	12	21	50	88
SOUTH PEACE	0	0	0	0	0	0	1	10	6	22	39
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	4	5	6	9	13	37
STURGEON	0	0	0	0	0	1	3	13	19	30	66
VEGREVILLE	0	0	0	0	0	0	0	3	11	22	36
WETOKA	0	0	0	0	0	0	1	6	14	20	41
ALBERTA	0	0	0	1	7	44	115	297	518	832	1814

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	58	158	358	976	2630
ALBERTA WEST CENTRAL	0	0	0	0	24	0	100	802	2238	2941
ATHABASCA	0	0	0	0	0	0	71	317	1110	2339
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	971	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	52	435	1042	2116
BIG COUNTRY	0	0	0	0	0	0	158	439	866	1987
CALGARY	0	0	0	0	3	37	104	268	772	2324
CHINOOK	0	0	0	0	0	40	56	358	1265	3274
DRUMHELLER	0	0	0	0	0	0	142	292	1260	3662
EDMONTON	0	0	0	2	2	23	117	380	913	2372
FOOTHILLS	0	0	0	0	0	0	61	296	1199	1597
FORT MCMURRAY	0	0	0	0	0	28	0	0	0	1408
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	291	1143	2564
JASPER NATIONAL PARK	0	0	0	0	161	0	0	2098	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	92	301	708	3348
LETHBRIDGE	0	0	0	0	0	0	78	166	792	2757
MINBURN-VERMILION	0	0	0	0	0	39	57	312	646	1549
MOUNT VIEW	0	0	0	0	0	0	99	270	763	3793
NORTH EASTERN ALBERTA	0	0	0	0	22	0	182	232	1342	2613
PEACE RIVER	0	0	0	0	30	0	262	576	1432	2009
RED DEER REGIONAL	0	0	0	0	0	47	133	263	1235	1985
SOUTHEASTERN ALBERTA	0	0	0	0	0	40	89	392	860	3634
SOUTH PEACE	0	0	0	0	0	0	35	463	495	2426
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	70	146	261	728	1813
STURGEON	0	0	0	0	0	12	62	386	973	2488
VEGREVILLE	0	0	0	0	0	0	0	205	738	1973
WETOKA	0	0	0	0	0	0	56	354	1096	2139
ALBERTA	0	0	0	1	3	25	103	332	926	2457

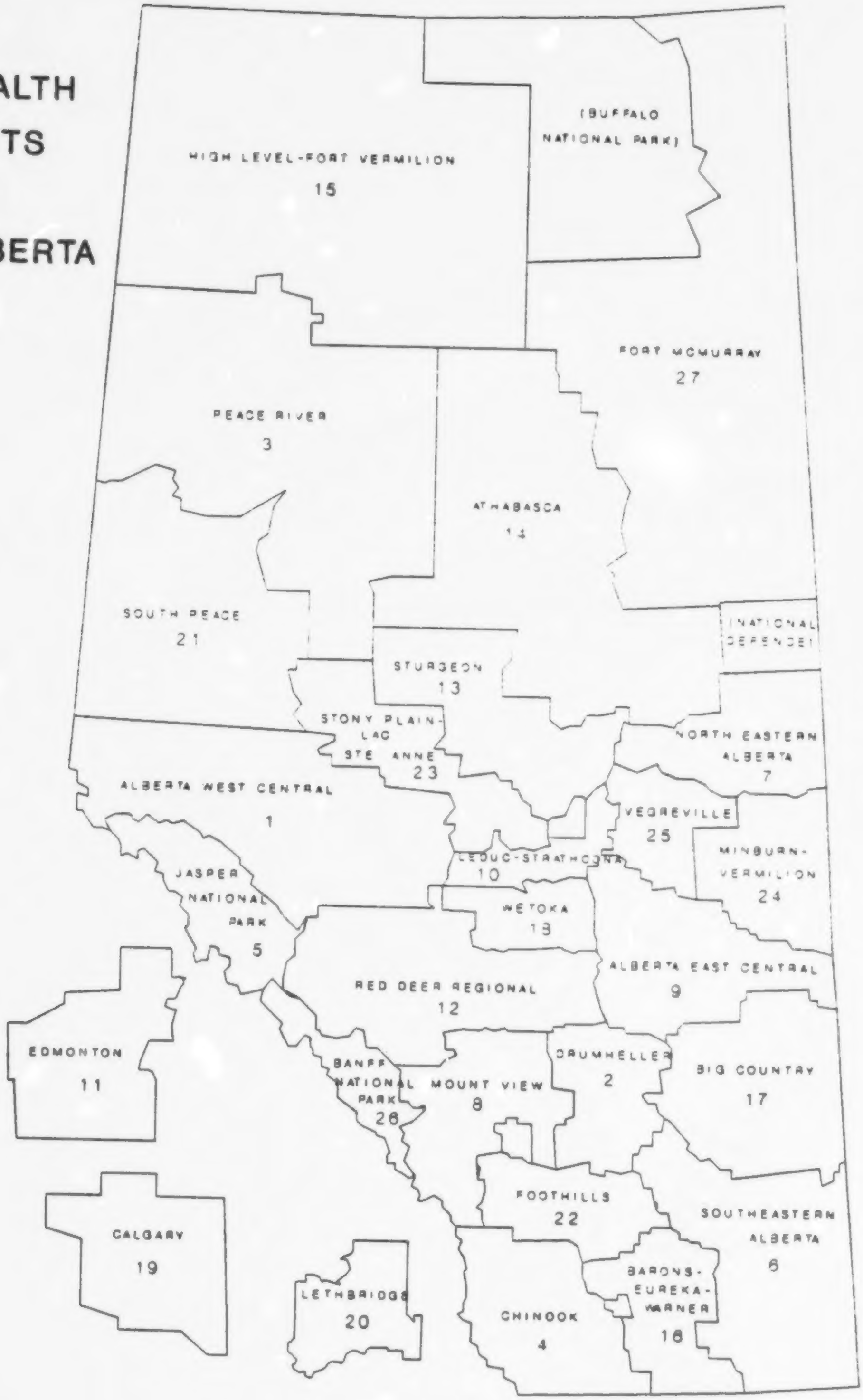
AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
ISCHEMIIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	169	130	209	9	1.12	.
ALBERTA WEST CENTRAL	261	181	340	1	1.73	YES
ATHABASCA	148	90	206	14	0.98	.
BANFF NATIONAL PARK	45	-43	134	26	0.30	.
BARONS EUREKA-WARNER	145	96	194	16	0.96	.
BIG COUNTRY	144	68	219	17	0.95	.
CALGARY	137	123	151	19	0.91	.
CHINOOK	189	140	238	4	1.25	.
DRUMHELLER	197	139	254	2	1.30	.
EDMONTON	152	138	167	11	1.01	.
FOOTHILLS	128	81	176	22	0.85	.
FORT MCMURRAY	44	-34	122	27	0.29	.
HIGH LEVEL-FORT VERMILION	147	16	278	15	0.97	.
JASPER NATIONAL PARK	189	1	377	5	1.25	.
LEDUC-STRATHCONA	158	116	200	10	1.05	.
LETHBRIDGE	134	99	169	20	0.89	.
MINBURN-VERMILION	108	68	148	24	0.72	.
MOUNT VIEW	171	125	218	8	1.13	.
NORTH EASTERN ALBERTA	175	123	226	7	1.16	.
PEACE RIVER	197	135	258	3	1.30	.
RED DEER REGIONAL	152	122	183	12	1.01	.
SOUTHEASTERN ALBERTA	186	147	225	6	1.23	YES
SOUTH PEACE	129	88	170	21	0.85	.
STONY PLAIN-LAC STE. ANNE	128	87	170	23	0.85	.
STURGEON	151	115	188	13	1.00	.
VEGREVILLE	105	70	140	25	0.70	.
WETOKA	143	98	187	18	0.95	.
ALBERTA	151	144	158			

3.26

ISCHEMIC HEART DISEASE, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION 15
(BUFFALO NATIONAL PARK)
FORT MCMURRAY 27
PEACE RIVER 3
ATHABASCA 14
SOUTH PEACE 21
(NATIONAL DEFENCE)
STURGEON 13
STONY PLAIN-LAC STE ANNE 23
NORTH EASTERN ALBERTA 7
ALBERTA WEST CENTRAL 1
VEGREVILLE 25
MINBURN-VERMILION 24
LEDUC-STRATHCONA 10
JASPER NATIONAL PARK 5
WETOKA 18
RED DEER REGIONAL 12
ALBERTA EAST CENTRAL 9
EDMONTON 11
DRUMHELLER 2
BIG COUNTRY 17
BANFF NATIONAL PARK 26
MOUNT VIEW 8
FOOTHILLS 22
SOUTHEASTERN ALBERTA 6
CALGARY 19
BARONS-EUREKA-WARNER 16
LETHBRIDGE 20
CHINOOK 4

NUMBER OF MALE DEATHS, 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	3	13	16
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	3	4
ATHABASCA	0	0	0	0	0	0	0	0	1	3	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	1	0	2
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	2	5	7
BIG COUNTRY	0	0	0	0	0	0	0	0	4	4	8
CALGARY	0	0	0	1	3	3	0	4	17	70	98
CHINOOK	0	0	0	0	0	0	0	1	1	8	10
DRUMHELLER	0	0	0	0	0	0	0	0	0	9	9
EDMONTON	0	0	0	0	3	1	5	12	22	60	103
FOOTHILLS	0	0	0	0	0	0	0	0	0	4	4
FORT MCMURRAY	0	0	0	0	0	0	0	0	1	0	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	1	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1	1
LEDUC-STRATHCONA	0	0	0	0	0	0	0	2	2	6	10
LETHBRIDGE	0	0	0	0	0	0	0	1	2	18	22
MINBURN-VERMILION	0	0	0	0	0	0	0	1	3	1	5
MOUNT VIEW	0	0	0	0	0	0	1	1	3	5	10
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	1	3	4	9
PEACE RIVER	0	0	0	0	1	0	0	1	3	5	10
RED DEER REGIONAL	0	0	0	0	0	1	0	1	6	13	21
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	0	0	3	14	18
SOUTH PEACE	0	0	0	0	1	0	1	1	1	5	9
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	9	10
STURGEON	0	0	0	0	0	0	1	1	1	11	14
VEGREVILLE	0	0	0	0	0	0	0	1	1	9	11
WETOKA	0	0	0	0	0	0	0	1	2	10	13
ALBERTA	0	0	0	1	8	8	10	30	84	290	431

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	133	834
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	140	735
ATHABASCA	0	0	0	0	0	0	0	0	139	585
BANFF NATIONAL PARK	0	0	0	0	0	0	0	403	971	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	189	705
BIG COUNTRY	0	0	0	0	0	0	0	0	866	1325
CALGARY	0	0	0	2	4	6	0	18	135	1077
CHINOOK	0	0	0	0	0	0	0	60	70	794
DRUMHELLER	0	0	0	0	0	0	0	0	0	1268
EDMONTON	0	0	0	0	5	3	19	53	167	791
FOOTHILLS	0	0	0	0	0	0	0	0	0	581
FORT MCMURRAY	0	0	0	0	0	0	67	0	893	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	120	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1639
LEDUC-STRATHCONA	0	0	0	0	0	0	0	60	118	670
LETHBRIDGE	0	0	0	0	0	0	39	41	99	1341
MINBURN-VERMILION	0	0	0	0	0	0	0	62	242	111
MOUNT VIEW	0	0	0	0	0	0	33	45	229	575
NORTH EASTERN ALBERTA	0	0	0	0	0	32	0	58	237	550
PEACE RIVER	0	0	0	0	30	0	0	72	358	717
RED DEER REGIONAL	0	0	0	0	0	12	0	24	195	679
SOUTHEASTERN ALBERTA	0	0	0	0	0	20	0	0	123	1017
SOUTH PEACE	0	0	0	0	16	0	35	46	83	551
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	81	1255
STURGEON	0	0	0	0	0	0	21	30	51	912
VEGREVILLE	0	0	0	0	0	0	0	68	67	807
WETOKA	0	0	0	0	0	0	0	59	157	1070
ALBERTA	0	0	0	1	3	4	9	34	150	857

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	30	15	44	18	0.83	.
ALBERTA WEST CENTRAL	27	1	54	23	0.75	.
ATHABASCA	23	0	45	24	0.64	.
BANFF NATIONAL PARK	75	-31	181	2	2.08	.
BARONS EUREKA-WARNER	29	7	50	20	0.81	.
BIG COUNTRY	78	24	131	1	2.17	.
CALGARY	40	32	48	8	1.11	.
CHINOOK	30	11	49	19	0.83	.
DRUMHELLER	36	12	59	12	1.00	.
EDMONTON	37	30	44	10	1.03	.
FOOTHILLS	16	0	32	27	0.44	.
FORT MCMURRAY	48	-35	130	4	1.33	.
HIGH LEVEL-FORT VERMILION	18	-17	53	26	0.50	.
JASPER NATIONAL PARK	46	-44	137	6	1.28	.
LEDUC-STRATHCONA	29	11	47	21	0.81	.
LETHBRIDGE	49	28	70	3	1.36	.
MINBURN-VERMILION	19	2	36	25	0.53	.
MOUNT VIEW	33	13	54	14	0.92	.
NORTH EASTERN ALBERTA	36	12	59	13	1.00	.
PEACE RIVER	48	18	79	5	1.33	.
RED DEER REGIONAL	32	18	45	15	0.89	.
SOUTHEASTERN ALBERTA	37	20	55	11	1.03	.
SOUTH PEACE	29	10	48	22	0.81	.
STONY PLAIN-LAC STE. ANNE	39	15	63	9	1.08	.
STURGEON	32	15	49	16	0.89	.
VEGREVILLE	31	12	50	17	0.86	.
WETOKA	42	19	65	7	1.17	.
ALBERTA	36	32	39			

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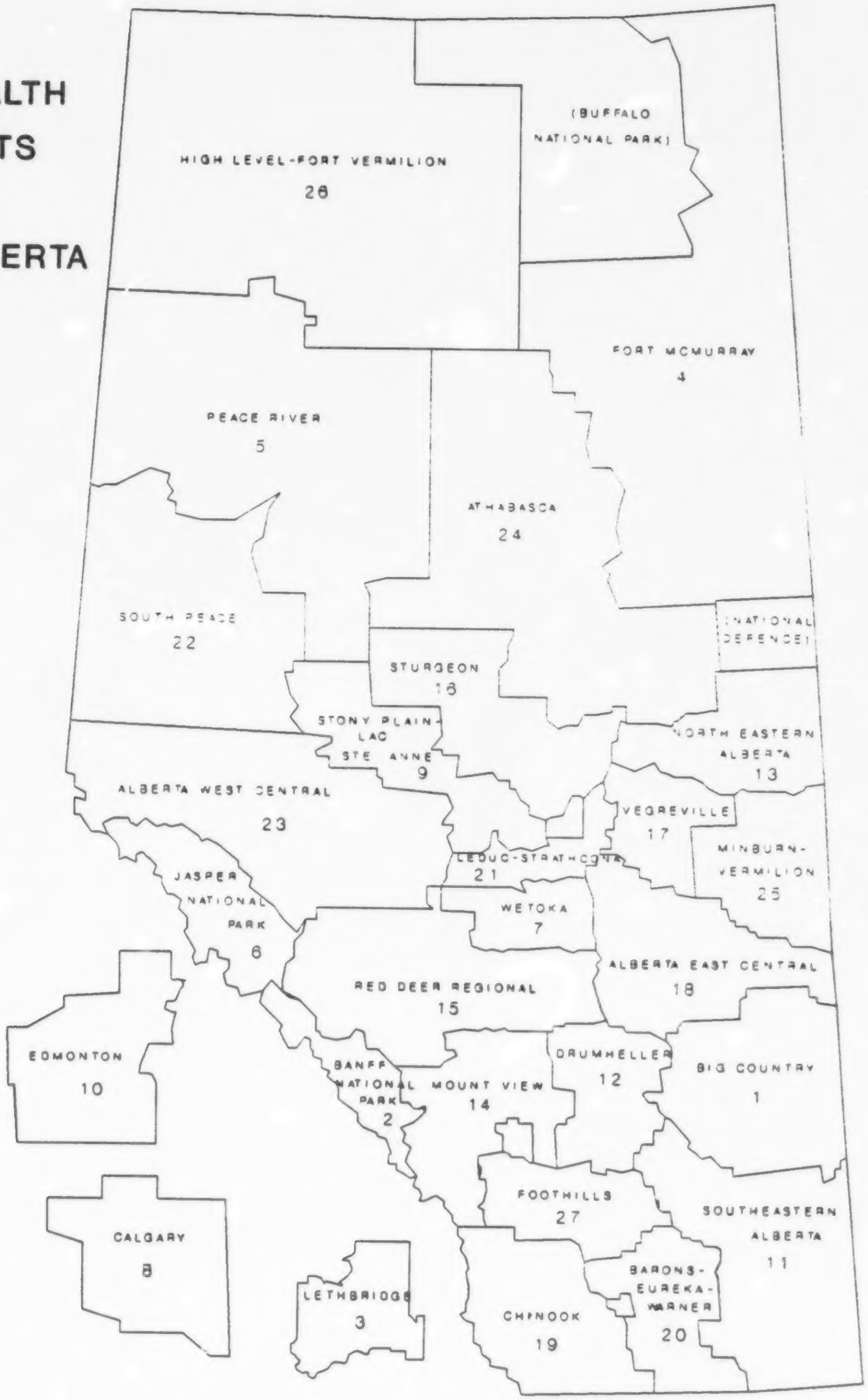
CEREBROVASCULAR DISEASE, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
26
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
4
PEACE RIVER
5
ATHABASCA
24
SOUTH PEACE
22
(NATIONAL DEFENCE)
STURGEON
16
STONY PLAIN-LAC STE ANNE
9
NORTH EASTERN ALBERTA
13
ALBERTA WEST CENTRAL
23
VEGREVILLE
17
MINBURN-VERMILION
25
LEDUC-STRATHCONA
21
JASPER NATIONAL PARK
6
WETOKA
7
RED DEER REGIONAL
15
ALBERTA EAST CENTRAL
18
EDMONTON
10
BANFF NATIONAL PARK
2
MOUNT VIEW
14
DRUMHELLER
12
BIG COUNTRY
1
FOOTHILLS
27
SOUTHEASTERN ALBERTA
11
CALGARY
8
LETHBRIDGE
3
BARONS-EUREKA-WARNER
20
CHINOOK
19

NUMBER OF MALE DEATHS, 1988
PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	1	18	19
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	4	5
ATHABASCA	0	0	0	0	0	0	1	1	2	2	6
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	5	5
BIG COUNTRY	0	0	0	0	0	0	0	0	2	1	3
CALGARY	2	0	0	0	0	1	0	6	10	42	61
CHINOOK	0	0	0	0	0	0	0	0	1	5	6
DRUMHELLER	0	0	0	0	0	0	0	0	0	6	6
EDMONTON	0	0	0	1	0	1	2	5	5	44	58
FOOTHILLS	0	0	0	0	0	0	0	0	0	3	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	3	3
LETHBRIDGE	0	0	0	0	1	0	1	0	3	5	10
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	3	3
MOUNT VIEW	0	0	1	0	0	0	0	0	0	3	4
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	6	6
PEACE RIVER	0	0	0	0	0	0	0	0	1	3	4
RED DEER REGIONAL	0	0	0	0	0	1	0	4	4	12	21
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	1	7	8
SOUTH PEACE	0	0	0	0	0	0	0	1	1	5	7
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	4	4
STURGEON	0	0	0	0	0	0	0	0	1	3	4
VEGREVILLE	0	0	0	0	0	0	0	1	0	5	6
WETOKA	0	0	0	0	0	1	1	0	3	15	20
ALBERTA	2	0	1	1	1	4	5	18	37	204	273

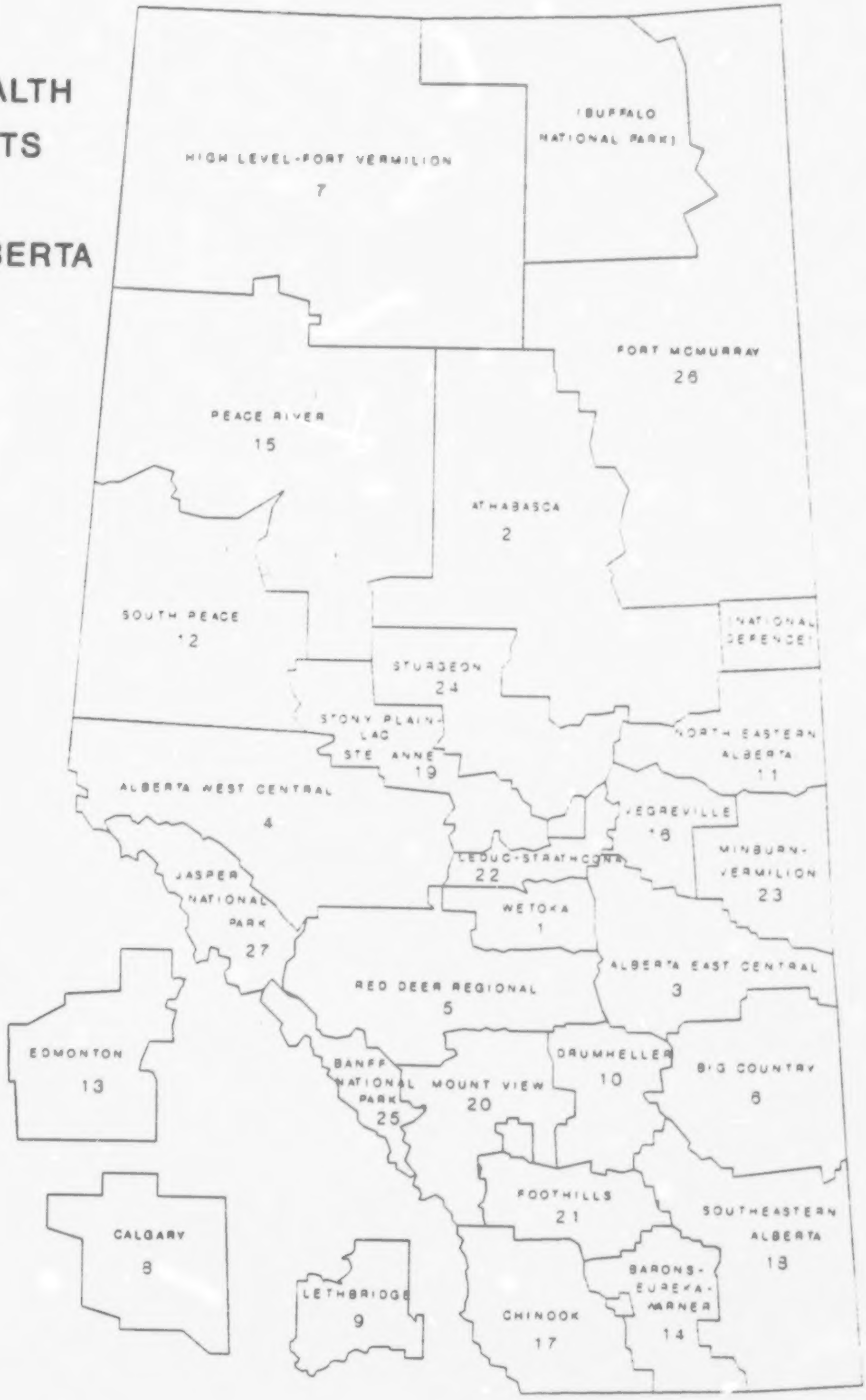
AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	44	1155
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	140	980
ATHABASCA	0	0	0	0	0	0	71	79	277	390
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	705
BIG COUNTRY	0	0	0	0	0	0	0	0	433	331
CALGARY	38	0	0	0	0	2	0	26	80	646
CHINOOK	0	0	0	0	0	0	0	0	70	496
DRUMHELLER	0	0	0	0	0	0	0	0	0	845
EDMONTON	0	0	0	2	0	3	8	22	38	580
FOOTHILLS	0	0	0	0	0	0	0	0	0	435
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	571	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	335
LETHBRIDGE	0	0	0	0	19	0	39	0	149	373
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	332
MOUNT VIEW	0	0	18	0	0	0	0	0	0	345
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	825
PEACE RIVER	0	0	0	0	0	0	0	0	119	430
RED DEER REGIONAL	0	0	0	0	0	12	0	96	130	627
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	41	509
SOUTH PEACE	0	0	0	0	0	0	0	46	83	551
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	558
STURGEON	0	0	0	0	0	0	0	0	51	249
VEGREVILLE	0	0	0	0	0	0	0	68	0	448
WETOKA	0	0	0	0	0	39	56	0	235	1604
ALBERTA	**10**	**0**	**1**	**1**	**0**	**2**	**4**	**20**	**66**	**603**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	35	19	50	3	1.52	.
ALBERTA WEST CENTRAL	34	4	64	4	1.43	.
ATHABASCA	36	7	66	2	1.57	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS EUREKA-WARNER	20	2	37	14	0.87	.
BIG COUNTRY	29	-4	63	6	1.26	.
CALGARY	25	19	31	8	1.09	.
CHINOOK	17	3	31	17	0.74	.
DRUMHELLER	24	5	43	10	1.04	.
EDMONTON	21	16	27	13	0.91	.
FOOTHILLS	12	-2	26	21	0.52	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	27	-26	79	7	1.17	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	9	-1	20	22	0.39	.
LETHBRIDGE	25	9	41	9	1.09	.
MINBURN-VERMILION	9	-1	20	23	0.39	.
MOUNT VIEW	13	0	25	20	0.57	.
NORTH EASTERN ALBERTA	23	5	42	11	1.00	.
PEACE RIVER	18	0	35	15	0.78	.
RED DEER REGIONAL	33	19	47	5	1.43	.
SOUTHEASTERN ALBERTA	16	5	27	18	0.70	.
SOUTH PEACE	23	6	40	12	1.00	.
STONY PLAIN-LAC STE. ANNE	16	0	31	19	0.70	.
STURGEON	9	0	19	24	0.39	.
VEGREVILLE	18	3	33	16	0.78	.
WETOKA	67	37	97	1	2.91	YES
ALBERTA	23	20	25			

HEALTH UNITS OF ALBERTA



HIGH LEVEL-FORT VERMILION
7
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
26
PEACE RIVER
15
ATHABASCA
2
SOUTH PEACE
12
(NATIONAL DEFENCE)
STURGEON
24
STONY PLAIN-LAC STE. ANNE
19
NORTH EASTERN ALBERTA
11
ALBERTA WEST CENTRAL
4
VEGREVILLE
16
LEDUC-STRATHCONA
22
MINBURN-VERMILION
23
JASPER NATIONAL PARK
27
WETOKA
1
ALBERTA EAST CENTRAL
3
RED DEER REGIONAL
5
EDMONTON
13
BANFF NATIONAL PARK
25
MOUNT VIEW
20
DRUMHELLER
10
BIG COUNTRY
6
FOOTHILLS
21
SOUTHEASTERN ALBERTA
18
CALGARY
8
BARONS-EUREKA-WARNER
14
LETHBRIDGE
9
CHINOOK
17

3.34

PNEUMONIA, MALES, 1988

NUMBER OF MALE DEATHS, 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	0	1	3	17	22
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	5	6
ATHABASCA	0	0	0	0	0	0	0	0	1	4	5
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	1	4	5
BIG COUNTRY	0	0	0	0	0	0	0	0	0	3	3
CALGARY	0	0	1	0	1	0	0	7	24	48	81
CHINOOK	0	0	0	0	0	0	0	1	2	3	6
DRUMHELLER	0	0	1	0	0	0	0	0	4	5	10
EDMONTON	0	0	0	1	0	0	3	9	20	50	83
FOOTHILLS	0	0	0	0	0	0	0	0	4	3	7
FORT MCMURRAY	0	0	0	0	0	0	0	1	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	2	2
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	0	1	2
LEDUC-STRATHCONA	0	0	0	0	0	0	0	1	2	6	9
LETHBRIDGE	0	0	0	0	0	0	1	3	5	5	14
MINBURN-VERMILION	0	0	0	0	0	0	0	0	3	4	7
MOUNT VIEW	0	0	0	0	0	1	0	1	0	2	4
NORTH EASTERN ALBERTA	0	0	0	1	0	0	0	0	1	3	5
PEACE RIVER	0	0	0	0	0	0	1	1	1	2	5
RED DEER REGIONAL	0	0	2	0	0	0	0	1	5	12	20
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	1	5	9	15
SOUTH PEACE	0	0	0	0	0	0	0	0	0	4	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	3	6	10
STURGEON	0	0	0	0	0	0	0	0	4	16	20
VEGREVILLE	0	0	0	0	0	0	1	0	2	7	10
WETOKA	0	0	0	0	0	0	0	0	3	6	9
ALBERTA	0	0	4	2	1	2	6	29	94	227	365

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AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	29	0	40	133	1090
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	140	1225
ATHABASCA	0	0	0	0	0	0	0	0	139	780
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	95	564
BIG COUNTRY	0	0	0	0	0	0	0	0	0	993
CALGARY	0	0	2	0	1	0	0	31	191	739
CHINOOK	0	0	0	0	0	0	0	60	141	298
DRUMHELLER	0	0	35	0	0	0	0	0	360	704
EDMONTON	0	0	0	2	0	0	11	40	152	659
FOOTHILLS	0	0	0	0	0	0	0	0	400	435
FORT MCMURRAY	0	0	0	0	0	0	0	187	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	2564
JASPER NATIONAL PARK	0	0	0	0	0	0	0	699	0	1639
LEDUC-STRATHCONA	0	0	0	0	0	0	0	30	118	670
LETHBRIDGE	0	0	0	0	0	0	39	124	248	373
MINBURN-VERMILION	0	0	0	0	0	0	0	0	242	442
MOUNT VIEW	0	0	0	0	0	20	0	45	0	230
NORTH EASTERN ALBERTA	0	0	0	24	0	0	0	0	79	413
PEACE RIVER	0	0	0	0	0	0	52	72	119	287
RED DEER REGIONAL	0	0	20	0	0	0	0	24	163	627
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	33	205	654
SOUTH PEACE	0	0	0	0	0	0	0	0	0	441
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	43	243	837
STURGEON	0	0	0	0	0	0	0	0	205	1327
VEGREVILLE	0	0	0	0	0	0	71	0	134	628
WETOKA	0	0	0	0	0	0	0	0	235	642
ALBERTA	0	0	2	1	0	1	5	32	168	670

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	44	25	63	4	1.47	.
ALBERTA WEST CENTRAL	41	8	74	6	1.37	.
ATHABASCA	28	3	53	16	0.93	.
BANFF NATIONAL PARK	0	0	0	27	0.00	.
BARONS EUREKA-WARNER	20	2	38	21	0.67	.
BIG COUNTRY	28	-4	60	17	0.93	.
CALGARY	33	25	40	9	1.10	.
CHINOOK	19	4	35	22	0.63	.
DRUMHELLER	42	16	68	5	1.40	.
EDMONTON	30	24	36	12	1.00	.
FOOTHILLS	31	8	54	10	1.03	.
FORT MCMURRAY	14	-13	41	24	0.47	.
HIGH LEVEL-FORT VERMILION	72	-28	172	2	2.40	.
JASPER NATIONAL PARK	98	-38	234	1	3.27	.
LEDUC-STRATHCONA	27	9	44	18	0.90	.
LETHBRIDGE	35	16	54	8	1.17	.
MINBURN-VERMILION	24	6	41	19	0.80	.
MOUNT VIEW	13	0	25	25	0.43	.
NORTH EASTERN ALBERTA	19	2	36	23	0.63	.
PEACE RIVER	24	3	45	20	0.80	.
RED DEER REGIONAL	30	17	43	13	1.00	.
SOUTHEASTERN ALBERTA	30	15	46	14	1.00	.
SOUTH PEACE	12	0	25	26	0.40	.
STONY PLAIN-LAC STE. ANNE	38	14	62	7	1.27	.
STURGEON	47	26	67	3	1.57	.
VEGREVILLE	31	10	51	11	1.03	.
WETOKA	29	10	48	15	0.97	.
ALBERTA	30	27	33			

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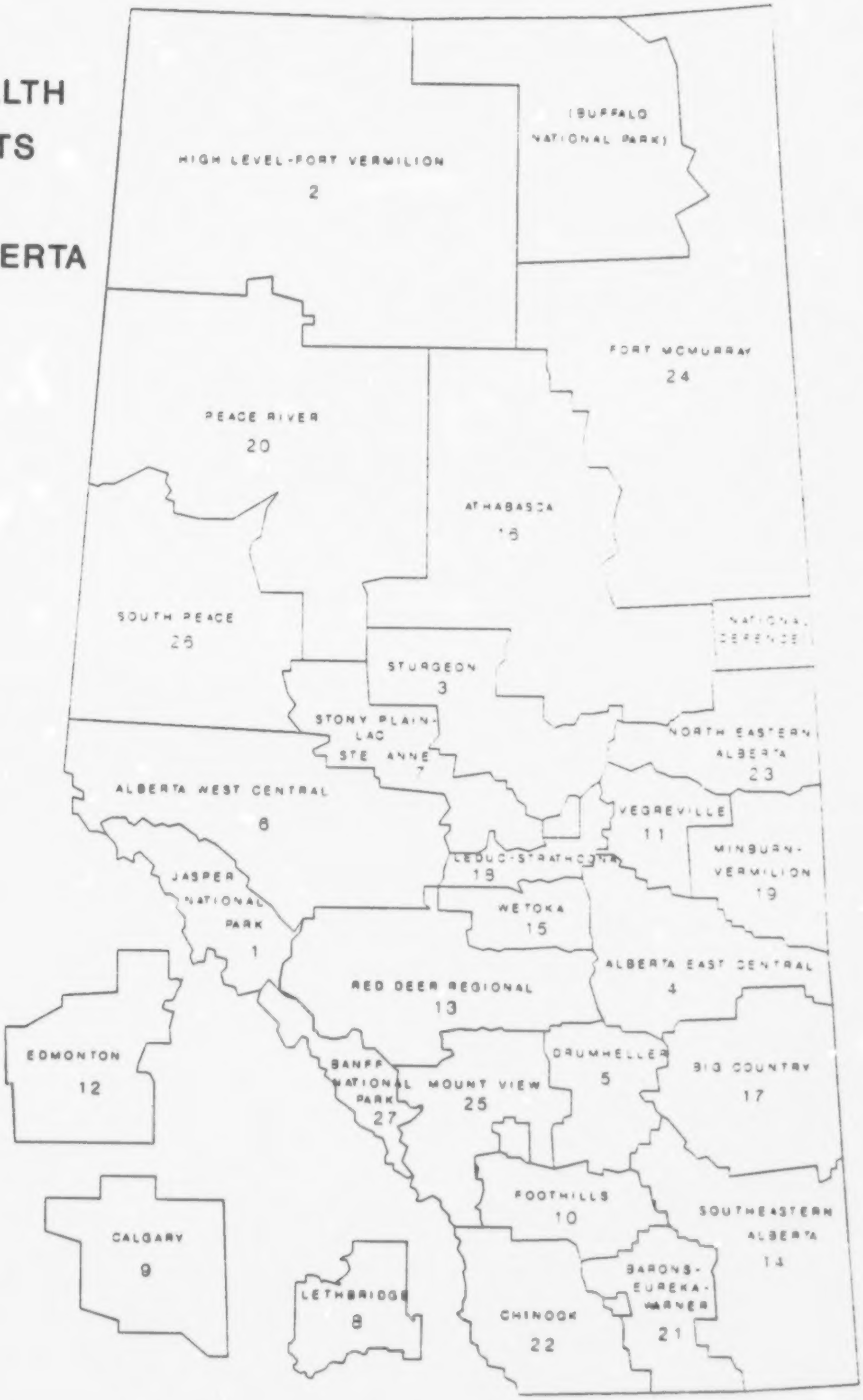
CHRONIC OBSTRUCTIVE LUNG DISEASE, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
2
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
24
PEACE RIVER
20
ATHABASCA
16
SOUTH PEACE
26
NATIONAL DEFENCE
STURGEON
3
STONY PLAIN-LAC STE ANNE
7
NORTH EASTERN ALBERTA
23
ALBERTA WEST CENTRAL
6
VEGREVILLE
11
MINBURN-VERMILION
19
LEDUC-STRATHCONA
18
JASPER NATIONAL PARK
1
WETOKA
15
ALBERTA EAST CENTRAL
4
RED DEER REGIONAL
13
EDMONTON
12
BANFF NATIONAL PARK
27
MOUNT VIEW
25
DRUMHELLER
5
BIG COUNTRY
17
FOOTHILLS
10
SOUTHEASTERN ALBERTA
14
CALGARY
9
BARONS-EUREKA-WARNER
21
LETHBRIDGE
8
CHINOOK
22

NUMBER OF MALE DEATHS, 1988
LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	2	0	0	3
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	1	1	3	0	0	5
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	3	5	11	7	1	28
CHINOOK	0	0	0	0	0	0	0	0	0	1	1
DRUMHELLER	0	0	0	0	0	0	1	0	1	0	2
EDMONTON	0	0	0	0	0	3	6	13	9	3	34
FOOTHILLS	0	0	0	0	0	1	0	0	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
LEDUC-STRATHCONA	0	0	0	0	0	1	0	1	1	0	3
LETHBRIDGE	0	0	0	0	0	0	0	0	2	1	3
MINBURN-VERMILION	0	0	0	0	0	0	1	1	0	0	2
MOUNT VIEW	0	0	0	0	0	0	0	1	0	0	1
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	0	0	1
PEACE RIVER	0	0	0	0	0	0	0	2	0	0	2
RED DEER REGIONAL	0	0	0	0	0	0	0	1	3	2	6
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	0	0	0	2	3
SOUTH PEACE	0	0	0	0	0	0	0	0	1	0	1
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	0	2	0	3
STURGEON	0	0	0	0	0	1	0	1	0	1	3
VEGREVILLE	0	0	0	0	0	0	0	0	1	1	2
WETOKA	0	0	0	0	0	0	0	1	0	0	1
ALBERTA	0	0	0	0	1	11	16	39	27	12	106

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	50	146	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	40	52	187	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	6	17	48	56	15
CHINOOK	0	0	0	0	0	0	0	0	0	99
DRUMHELLER	0	0	0	0	0	0	71	0	90	0
EDMONTON	0	0	0	0	0	8	23	58	68	40
FOOTHILLS	0	0	0	0	0	37	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	699	0	0
LEDUC-STRATHCONA	0	0	0	0	0	10	0	30	59	0
LETHBRIDGE	0	0	0	0	0	0	0	0	99	75
MINBURN-VERMILION	0	0	0	0	0	0	57	62	0	0
MOUNT VIEW	0	0	0	0	0	0	0	45	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	58	0	0
PEACE RIVER	0	0	0	0	0	0	0	144	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	24	98	104
SOUTHEASTERN ALBERTA	0	0	0	0	0	20	0	0	0	145
SOUTH PEACE	0	0	0	0	0	0	0	0	83	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	29	0	162	0
STURGEON	0	0	0	0	0	12	0	30	0	83
VEGREVILLE	0	0	0	0	0	0	0	0	67	90
WETOKA	0	0	0	0	0	0	0	59	0	0
ALBERTA	**0**	**0**	**0**	**0**	**0**	**6**	**14**	**44**	**48**	**35**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	22	0.00	.
ALBERTA WEST CENTRAL	15	-2	33	3	1.67	.
ATHABASCA	0	0	0	23	0.00	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS EUREKA-WARNER	25	3	46	2	2.78	.
BIG COUNTRY	0	0	0	25	0.00	.
CALGARY	9	6	13	9	1.00	.
CHINOOK	3	-3	8	20	0.33	.
DRUMHELLER	11	-5	26	5	1.22	.
EDMONTON	12	8	16	4	1.33	.
FOOTHILLS	6	-5	16	13	0.67	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	27	0.00	.
JASPER NATIONAL PARK	52	-50	154	1	5.78	.
LEDUC-STRATHCONA	6	-1	14	14	0.67	.
LETHBRIDGE	7	-1	14	11	0.78	.
MINBURN-VERMILION	10	-4	24	7	1.11	.
MOUNT VIEW	3	-3	10	21	0.33	.
NORTH EASTERN ALBERTA	4	-4	13	17	0.44	.
PEACE RIVER	11	-4	26	6	1.22	.
RED DEER REGIONAL	9	2	17	10	1.00	.
SOUTHEASTERN ALBERTA	7	-1	15	12	0.78	.
SOUTH PEACE	4	-4	11	18	0.44	.
STONY PLAIN-LAC STE. ANNE	10	-1	22	8	1.11	.
STURGEON	6	-1	13	15	0.67	.
VEGREVILLE	6	-2	14	16	0.67	.
WETOKA	4	-4	13	19	0.44	.
ALBERTA	9	7	10			

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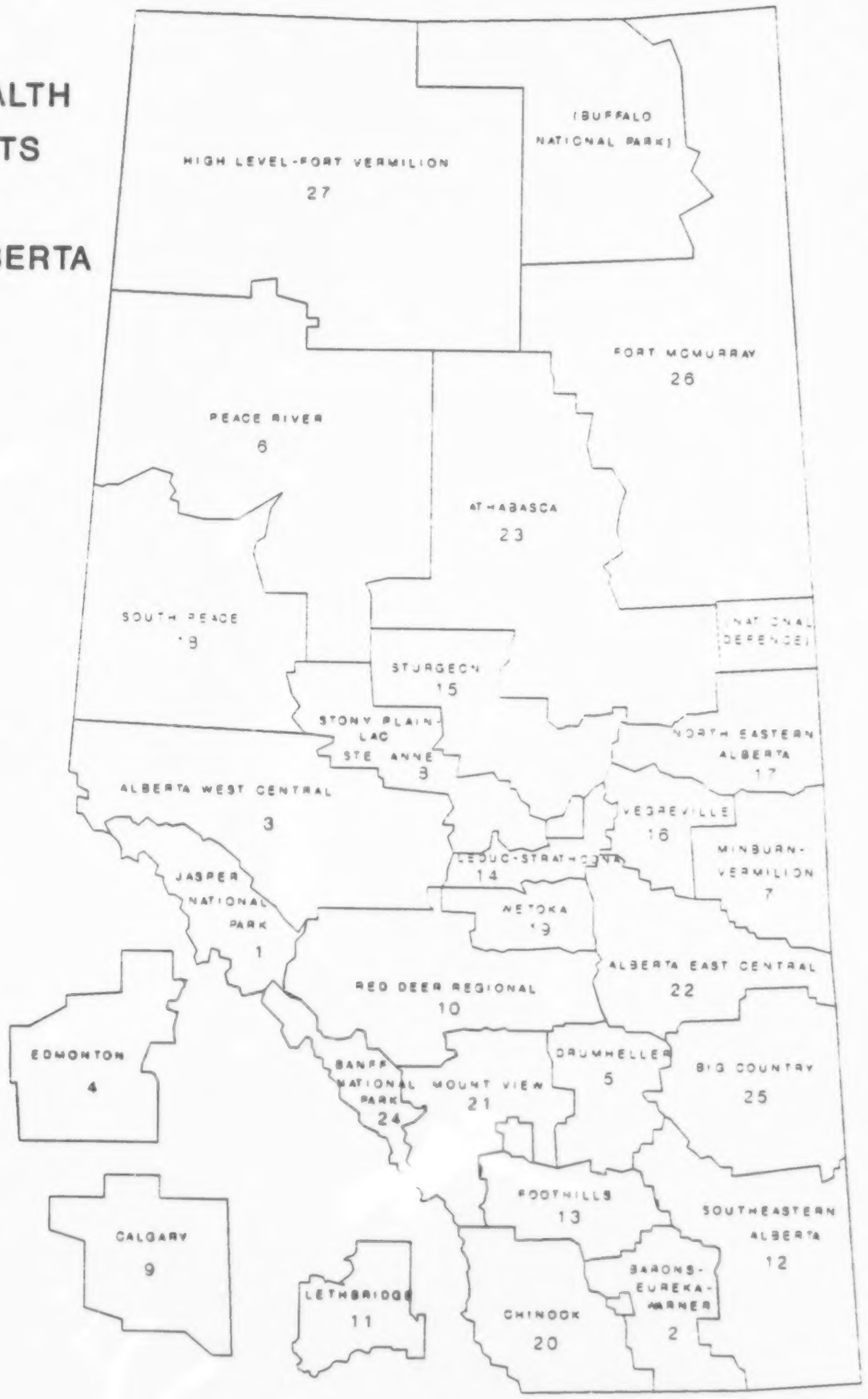
LIVER CIRRHOSIS, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
27
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
26
PEACE RIVER
6
ATHABASCA
23
SOUTH PEACE
18
(NATIONAL DEFENCE)
STURGEON
15
STONY PLAIN-LAC STE ANNE
8
NORTH EASTERN ALBERTA
17
ALBERTA WEST CENTRAL
3
VEGREVILLE
16
MINBURN-VERMILION
7
LEDUC-STRATHCONA
14
JASPER NATIONAL PARK
1
WETOKA
19
ALBERTA EAST CENTRAL
22
RED DEER REGIONAL
10
EDMONTON
4
BANFF NATIONAL PARK
24
MOUNT VIEW
21
DRUMHELLER
5
BIG COUNTRY
25
FOOTHILLS
13
SOUTHEASTERN ALBERTA
12
CALGARY
9
LETHBRIDGE
11
CHINOOK
20
BARONS-EUREKA-WARNER
2

NUMBER OF MALE DEATHS, 1988
CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	2	0	0	0	0	0	0	0	0	0	2
ATHABASCA	1	0	0	0	0	0	0	0	0	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	1	0	0	0	0	0	0	0	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	9	3	1	0	1	0	0	0	0	0	14
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	14	0	2	1	1	0	1	0	0	0	19
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	1	0	0	0	0	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	2	1	0	0	0	0	0	0	0	0	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	1	1	0	0	0	0	0	0	2	0	4
LETHBRIDGE	0	0	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	3	0	0	0	0	0	0	0	0	0	3
MOUNT VIEW	2	0	0	0	0	0	0	0	0	0	2
NORTH EASTERN ALBERTA	2	0	1	0	0	0	0	0	0	0	3
PEACE RIVER	2	0	1	0	0	0	0	0	0	0	3
RED DEER REGIONAL	5	0	0	0	0	1	0	0	0	0	6
SOUTHEASTERN ALBERTA	7	0	0	0	0	0	0	0	0	0	7
SOUTH PEACE	1	1	0	0	0	0	0	0	0	0	2
STONY PLAIN-LAC STE. ANNE	1	0	0	0	0	0	0	0	0	0	1
STURGEON	4	0	0	0	0	1	0	0	0	0	5
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	1	0	0	1	0	0	0	0	0	0	2
ALBERTA	**58**	**7**	**5**	**2**	**2**	**2**	**1**	**0**	**2**	**0**	**79**

AGE-SPECIFIFC DEATH RATES (PER 100,000 MALES), 1988
CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	592	0	0	0	0	0	0	0	0	0
ATHABASCA	298	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	62	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	172	14	2	0	1	0	0	0	0	0
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	292	0	5	2	2	0	4	0	0	0
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	276	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	1042	121	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	124	27	0	0	0	0	0	0	118	0
LETHBRIDGE	0	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	912	0	0	0	0	0	0	0	0	0
MOUNT VIEW	402	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	444	0	23	0	0	0	0	0	0	0
PEACE RIVER	581	0	28	0	0	0	0	0	0	0
RED DEER REGIONAL	500	0	0	0	0	12	0	0	0	0
SOUTHEASTERN ALBERTA	1144	0	0	0	0	0	0	0	0	0
SOUTH PEACE	167	38	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	173	0	0	0	0	0	0	0	0	0
STURGEON	531	0	0	0	0	12	0	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	337	0	0	36	0	0	0	0	0	0
ALBERTA	**292**	**8**	**3**	**1**	**1**	**1**	**1**	**0**	**4**	**0**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
CONGENITAL ANOMALY

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	19	0.00	.
ALBERTA WEST CENTRAL	10	-4	23	8	1.43	.
ATHABASCA	5	-5	15	13	0.71	.
BANFF NATIONAL PARK	0	0	0	20	0.00	.
BARONS EUREKA-WARNER	4	-4	13	16	0.57	.
BIG COUNTRY	0	0	0	21	0.00	.
CALGARY	4	2	7	17	0.57	.
CHINOOK	0	0	0	22	0.00	.
DRUMHELLER	0	0	0	23	0.00	.
EDMONTON	7	4	10	11	1.00	.
FOOTHILLS	0	0	0	24	0.00	.
FORT MCMURRAY	5	-4	14	14	0.71	.
HIGH LEVEL-FORT VERMILION	26	-3	55	1	3.71	.
JASPER NATIONAL PARK	0	0	0	25	0.00	.
LEDUC-STRATHCONA	9	0	19	10	1.29	.
LETHBRIDGE	0	0	0	26	0.00	.
MINBURN-VERMILION	15	-2	32	3	2.14	.
MOUNT VIEW	7	-3	16	12	1.00	.
NORTH EASTERN ALBERTA	11	-1	23	5	1.57	.
PEACE RIVER	14	-2	30	4	2.00	.
RED DEER REGIONAL	10	2	18	9	1.43	.
SOUTHEASTERN ALBERTA	19	5	33	2	2.71	YES
SOUTH PEACE	5	-2	13	15	0.71	.
STONY PLAIN-LAC STE. ANNE	3	-3	8	18	0.43	.
STURGEON	11	1	2-	6	1.57	.
VEGREVILLE	0	0	0	27	0.00	.
WETOKA	11	-4	27	7	1.57	.
ALBERTA	7	5	8			

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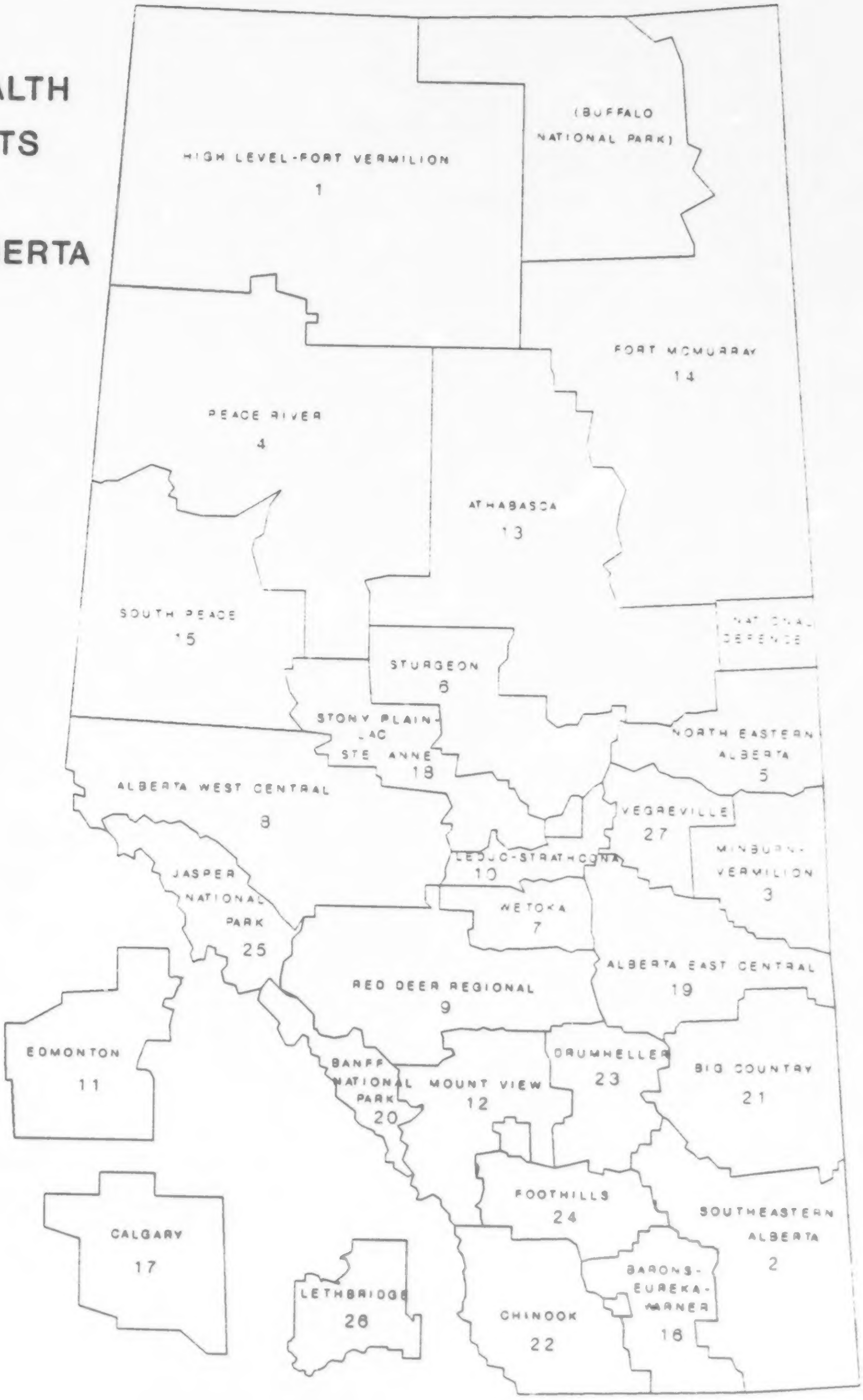
CONGENITAL ANOMALY, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
14
PEACE RIVER
4
ATHABASCA
13
SOUTH PEACE
15
NATIONAL DEFENCE
STURGEON
6
STONY PLAIN-LAC STE ANNE
18
NORTH EASTERN ALBERTA
5
ALBERTA WEST CENTRAL
8
VEGREVILLE
27
MINBURN-VERMILION
3
LEDUC-STRATHCONA
10
JASPER NATIONAL PARK
25
WETOKA
7
ALBERTA EAST CENTRAL
19
RED DEER REGIONAL
9
EDMONTON
11
DRUMHELLER
23
BIG COUNTRY
21
BANFF NATIONAL PARK
20
MOUNT VIEW
12
FOOTHILLS
24
SOUTHEASTERN ALBERTA
2
CALGARY
17
BARONS-EUREKA-WARNER
16
LETHBRIDGE
26
CHINOOK
22

NUMBER OF MALE DEATHS, 1988
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	1	3	1	0	0	2	8
ALBERTA WEST CENTRAL	0	0	1	1	3	2	0	0	0	0	7
ATHABASCA	0	0	0	7	1	2	2	1	0	0	13
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	1	0	2	0	0	3
BIG COUNTRY	0	0	0	3	1	0	0	0	0	0	4
CALGARY	0	0	2	19	11	5	1	0	0	1	39
CHINOOK	0	0	0	2	1	0	1	0	0	0	4
DRUMHELLER	0	0	0	0	1	0	0	0	1	0	2
EDMONTON	0	0	3	21	11	4	2	3	3	2	49
FOOTHILLS	0	0	0	1	0	2	2	0	0	0	5
FORT MCMURRAY	0	0	0	2	2	0	0	0	0	0	4
HIGH LEVEL-FORT VERMILION	0	0	0	3	2	0	1	0	0	0	6
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	5	4	2	2	2	0	0	15
LETHBRIDGE	0	0	0	4	0	3	0	1	1	1	10
MINBURN-VERMILION	0	0	0	1	1	2	0	1	1	1	7
MOUNT VIEW	0	0	2	2	3	0	2	1	0	0	10
NORTH EASTERN ALBERTA	0	0	1	6	2	2	1	0	0	0	12
PEACE RIVER	0	0	2	4	1	1	1	1	2	1	13
RED DEER REGIONAL	0	1	0	6	8	2	1	0	2	0	20
SOUTHEASTERN ALBERTA	0	0	0	6	4	3	0	1	1	0	15
SOUTH PEACE	0	0	1	5	3	1	1	0	0	0	11
STONY PLAIN-LAC STE. ANNE	0	0	2	6	3	1	1	0	0	1	14
STURGEON	0	0	0	7	2	1	2	1	3	0	16
VEGREVILLE	0	0	0	3	2	2	1	1	1	2	12
WETOKA	0	0	0	6	2	2	0	1	0	1	12
ALBERTA	0	1	14	121	70	40	22	16	15	12	311

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AGE-SPECIFIC DEATH RATES (PER 100,000 MALES) , 1983
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	24	23	87	39	0	0	128
ALBERTA WEST CENTRAL	0	0	26	30	72	68	0	0	0	0
ATHABASCA	0	0	0	251	38	98	143	79	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	31	0	0	124	0	0
BIG COUNTRY	0	0	0	294	88	0	0	0	0	0
CALGARY	0	0	5	37	15	10	3	0	0	15
CHINOOK	0	0	0	64	33	0	56	0	0	0
DRUMHELLER	0	0	0	0	36	0	0	0	90	0
EDMONTON	0	0	8	44	17	10	8	13	23	26
FOOTHILLS	0	0	0	44	0	74	121	0	0	0
FORT MCMURRAY	0	0	0	64	43	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	221	153	0	199	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	60	47	20	37	60	0	0
LETHBRIDGE	0	0	0	86	0	77	0	41	50	75
MINBURN-VERMILION	0	0	0	33	29	79	0	62	81	111
MOUNT VIEW	0	0	36	45	52	0	66	45	0	0
NORTH EASTERN ALBERTA	0	0	23	144	43	64	45	0	0	0
PEACE RIVER	0	0	56	118	30	41	52	72	239	143
RED DEER REGIONAL	0	22	0	63	65	24	19	0	65	0
SOUTHEASTERN ALBERTA	0	0	0	100	56	60	0	33	41	0
SOUTH PEACE	0	0	17	92	47	22	35	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	31	121	50	18	29	0	0	139
STURGEON	0	0	0	96	24	12	42	30	154	0
VEGREVILLE	0	0	0	159	95	104	71	68	67	179
WETOKA	0	0	0	215	68	77	0	59	0	107
ALBERTA	**0**	**1**	**7**	**62**	**28**	**22**	**20**	**18**	**27**	**35**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	29	8	50	18	1.12	.
ALBERTA WEST CENTRAL	34	9	59	12	1.31	.
ATHABASCA	82	37	127	2	3.15	YES
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS EUREKA-WARNER	16	-2	34	23	0.62	.
BIG COUNTRY	65	1	130	5	2.50	.
CALGARY	12	8	16	24	0.46	.
CHINOOK	22	0	45	20	0.85	.
DRUMHELLER	12	-5	28	25	0.46	.
EDMONTON	17	12	22	22	0.65	.
FOOTHILLS	29	4	55	19	1.12	.
FORT MCMURRAY	19	0	38	21	0.73	.
HIGH LEVEL-FORT VERMILION	85	16	155	1	3.27	YES
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	30	15	46	17	1.15	.
LETHBRIDGE	33	12	53	13	1.27	.
MINBURN-VERMILION	35	8	61	10	1.35	.
MOUNT VIEW	33	13	54	14	1.27	.
NORTH EASTERN ALBERTA	49	21	78	7	1.88	.
PEACE RIVER	65	30	101	6	2.50	YES
RED DEER REGIONAL	33	19	48	15	1.27	.
SOUTHEASTERN ALBERTA	41	20	62	9	1.58	.
SOUTH PEACE	33	14	53	16	1.27	.
STONY PLAIN-LAC STE. ANNE	44	21	67	8	1.69	.
STURGEON	35	18	53	11	1.35	.
VEGREVILLE	80	32	129	3	3.08	YES
WETOKA	68	29	106	4	2.62	YES
ALBERTA	**26**	**23**	**29**			

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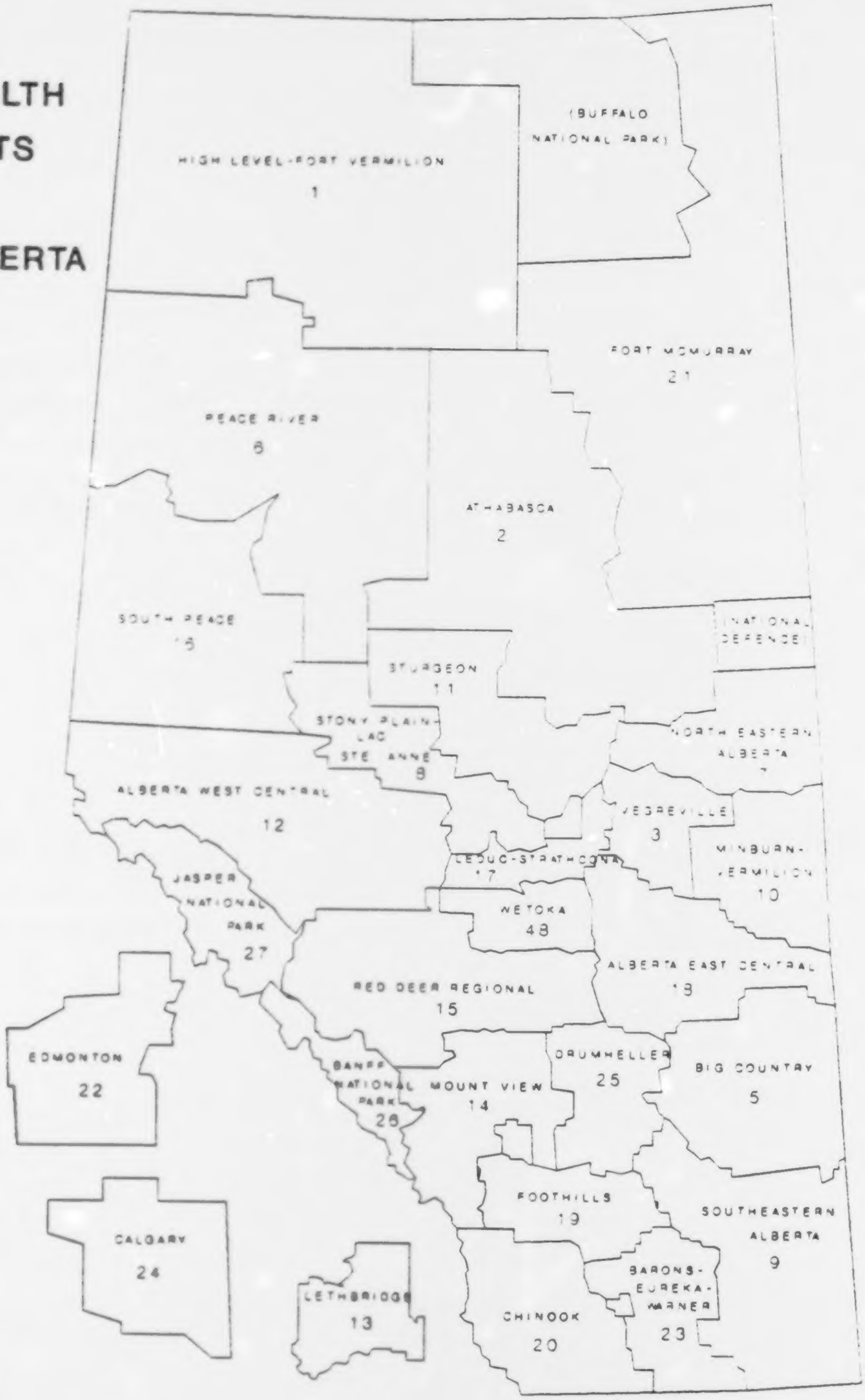
MOTOR VEHICLE ACCIDENTS, MALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
1
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
21
PEACE RIVER
6
ATHABASCA
2
SOUTH PEACE
16
NATIONAL DEFENCE
STURGEON
11
STONY PLAIN-LAC STE ANNE
8
NORTH EASTERN ALBERTA
7
ALBERTA WEST CENTRAL
12
VEGREVILLE
3
MINBURN-VERMILION
10
LEDUC-STRATHCONA
17
WETOKA
48
JASPER NATIONAL PARK
27
RED DEER REGIONAL
15
ALBERTA EAST CENTRAL
18
EDMONTON
22
DRUMHELLER
25
BIG COUNTRY
5
BANFF NATIONAL PARK
26
MOUNT VIEW
14
FOOTHILLS
19
SOUTHEASTERN ALBERTA
9
CALGARY
24
BARONS-EUREKA-WARNER
23
LETHBRIDGE
13
CHINOOK
20

NUMBER OF MALE DEATHS 1988
SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	2	1	1	0	0	5
ALBERTA WEST CENTRAL	0	0	0	0	0	2	0	0	0	0	2
ATHABASCA	0	0	0	0	1	2	1	1	0	0	5
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	2	0	0	0	1	0	0	3
BIG COUNTRY	0	0	0	1	0	0	0	0	1	0	2
CALGARY	0	0	2	13	21	14	3	14	1	1	69
CHINOOK	0	0	0	1	0	0	0	0	1	0	2
DRUMHELLER	0	0	0	1	1	4	0	0	0	0	6
EDMONTON	0	0	1	16	23	13	19	7	1	2	82
FOOTHILLS	0	0	0	0	0	1	3	0	0	0	4
FORT MCMURRAY	0	0	0	1	2	1	0	0	0	0	4
HIGH LEVEL-FORT VERMILION	0	0	0	1	1	0	1	0	0	0	3
JASPER NATIONAL PARK	0	0	0	0	0	1	0	0	0	0	1
LEDUC-STRATHCONA	0	0	0	7	5	6	2	4	1	0	25
LETHBRIDGE	0	0	0	1	1	2	0	2	1	2	9
MINBURN-VERMILION	0	0	0	2	1	2	0	0	0	0	5
MOUNT VIEW	0	0	0	2	1	4	1	0	1	2	11
NORTH EASTERN ALBERTA	0	0	0	3	1	3	0	1	0	0	8
PEACE RIVER	0	0	0	4	0	0	1	0	0	0	5
RED DEER REGIONAL	0	0	0	2	3	1	2	2	1	0	11
SOUTHEASTERN ALBERTA	0	0	0	1	0	1	1	1	1	2	7
SOUTH PEACE	0	0	0	3	3	0	2	2	1	0	11
STONY PLAIN-LAC STE. ANNE	0	0	0	2	1	2	0	1	1	0	7
STURGEON	0	0	0	1	0	0	3	0	0	2	6
VEGREVILLE	0	0	0	0	2	0	1	0	1	0	4
WETOKA	0	0	0	1	0	0	0	0	0	1	2
ALBERTA	0	0	3	66	67	61	41	37	12	12	299

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	24	0	58	39	40	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	68	0	0	0	0
ATHABASCA	0	0	0	0	38	98	71	79	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	60	0	0	0	62	0	0
BIG COUNTRY	0	0	0	98	0	0	0	0	216	0
CALGARY	0	0	5	25	28	27	10	62	8	15
CHINOOK	0	0	0	32	0	0	0	0	70	0
DRUMHELLER	0	0	0	37	36	167	0	0	0	0
EDMONTON	0	0	3	33	36	33	72	31	8	26
FOOTHILLS	0	0	0	0	0	37	182	0	0	0
FORT MCMURRAY	0	0	0	32	43	28	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	74	77	0	199	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	346	0	0	0	0
LEDUC-STRATHCONA	0	0	0	84	59	60	37	120	59	0
LETHBRIDGE	0	0	0	21	19	51	0	83	50	149
MINBURN-VERMILION	0	0	0	67	29	79	0	0	0	0
MOUNT VIEW	0	0	0	45	17	79	33	0	76	230
NORTH EASTERN ALBERTA	0	0	0	72	22	97	0	58	0	0
PEACE RIVER	0	0	0	118	0	0	52	0	0	0
RED DEER REGIONAL	0	0	0	21	24	12	38	48	33	0
SOUTHEASTERN ALBERTA	0	0	0	17	0	20	30	33	41	145
SOUTH PEACE	0	0	0	55	47	0	69	93	83	0
STONY PLAIN-LAC STE. ANNE	0	0	0	40	17	35	0	43	81	0
STURGEON	0	0	0	14	0	0	62	0	0	166
VEGREVILLE	0	0	0	0	95	0	71	0	67	0
WETOKA	0	0	0	36	0	0	0	0	0	107
ALBERTA	**0**	**0**	**2**	**34**	**27**	**34**	**37**	**41**	**21**	**35**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
SUICIDE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	19	2	36	18	0.76	.
ALBERTA WEST CENTRAL	10	-4	24	24	0.40	.
ATHABASCA	35	4	65	7	1.40	.
BANFF NATIONAL PARK	0	0	0	27	0.00	.
BARONS EUREKA-WARNER	14	-2	30	22	0.56	.
BIG COUNTRY	26	-11	63	13	1.04	.
CALGARY	21	16	26	17	0.84	.
CHINOOK	8	-4	20	26	0.32	.
DRUMHELLER	38	8	69	4	1.52	.
EDMONTON	28	22	34	10	1.12	.
FOOTHILLS	22	0	45	15	0.88	.
FORT MCMURRAY	18	0	36	20	0.72	.
HIGH LEVEL-FORT VERMILION	46	-7	99	3	1.84	.
JASPER NATIONAL PARK	51	-49	152	1	2.04	.
LEDUC-STRATHCONA	50	30	70	2	2.00	YES
LETHBRIDGE	28	9	46	11	1.12	.
MINBURN-VERMILION	28	3	53	12	1.12	.
MOUNT VIEW	36	15	57	5	1.44	.
NORTH EASTERN ALBERTA	35	11	59	8	1.40	.
PEACE RIVER	24	3	45	14	0.96	.
RED DEER REGIONAL	19	8	30	19	0.76	.
SOUTHEASTERN ALBERTA	17	4	29	21	0.68	.
SOUTH PEACE	36	15	57	6	1.44	.
STONY PLAIN-LAC STE. ANNE	22	6	39	16	0.88	.
STURGEON	13	2	23	23	0.52	.
VEGREVILLE	29	-1	60	9	1.16	.
WETOKA	9	-4	22	25	0.36	.
ALBERTA	25	22	28			

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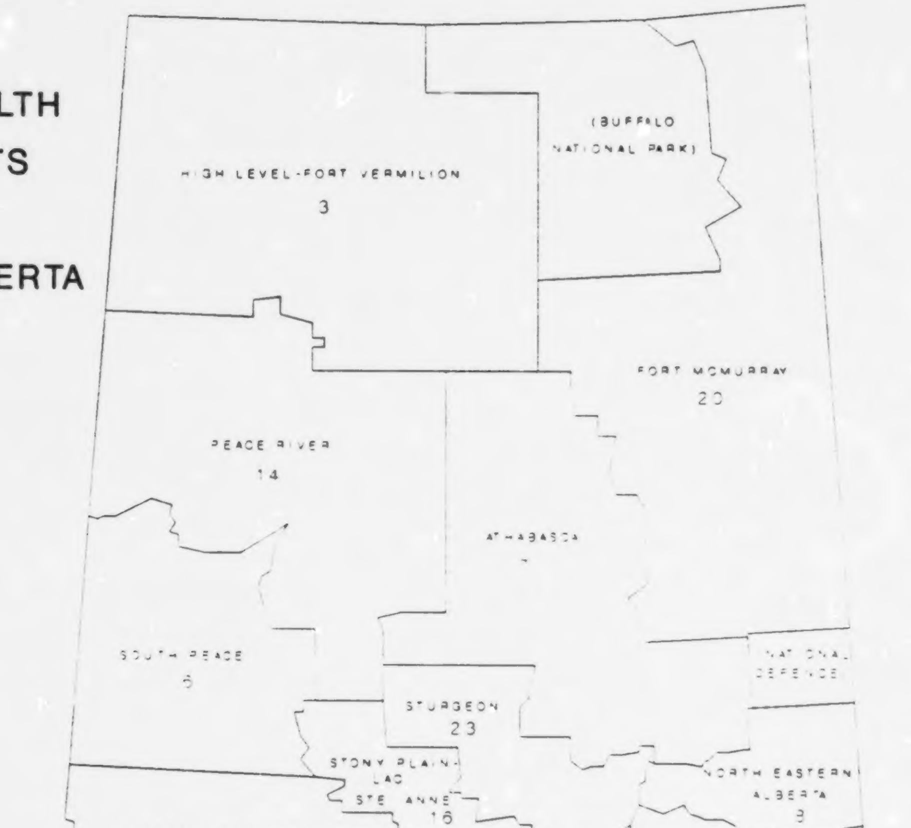
SUICIDE, MALES, 1988

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION
3
FORT MCMURRAY
20
PEACE RIVER
14
ATHABASCA
7
SOUTH PEACE
6
NATIONAL DEFENCE
STURGEON
23
STONY PLAIN-LAC STE ANNE
16
NORTH EASTERN ALBERTA
8
ALBERTA WEST CENTRAL
24
VEGREVILLE
9
MINBURN-VERMILION
12
LEDUC-STRATHCONA
2
JASPER NATIONAL PARK
1
WETOKA
25
ALBERTA EAST CENTRAL
18
RED DEER REGIONAL
19
EDMONTON
10
DRUMHELLER
4
BIG COUNTRY
13
BANFF NATIONAL PARK
27
MOUNT VIEW
5
FOOTHILLS
15
SOUTHEASTERN ALBERTA
21
CALGARY
17
BARONS-EUREKA-WARNER
22
LETHBRIDGE
11
CHINOOK
26

NUMBER OF MALE DEATHS, 1988
PROSTATE CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	0	4	4	9
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	3	3
ATHABASCA	0	0	0	0	0	0	0	0	0	5	5
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	2	1	3
BIG COUNTRY	0	0	0	0	0	0	0	1	0	2	3
CALGARY	0	0	0	0	0	0	1	8	9	21	39
CHINOOK	0	0	0	0	0	0	0	1	1	5	7
DRUMHELLER	0	0	0	0	0	0	0	0	3	5	8
EDMONTON	0	0	0	0	0	0	0	8	15	33	56
FOOTHILLS	0	0	0	0	0	0	0	1	1	6	8
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	0	1	0	6	8
LETHBRIDGE	0	0	0	0	0	0	1	0	5	5	11
MINBURN-VERMILION	0	0	0	0	0	0	0	0	5	1	6
MOUNT VIEW	0	0	0	0	0	0	0	0	2	4	6
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	3	1	4
PEACE RIVER	0	0	0	0	0	0	0	0	2	3	5
RED DEER REGIONAL	0	0	0	0	0	0	0	1	6	12	19
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	3	5	8
SOUTH PEACE	0	0	0	0	0	0	0	1	1	2	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	2	1	3
STURGEON	0	0	0	0	0	0	0	0	2	11	13
VEGREVILLE	0	0	0	0	0	0	0	0	2	5	7
WETOKA	0	0	0	0	0	0	0	1	3	2	6
ALBERTA	0	0	0	0	0	1	3	23	71	143	241

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AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1988
PROSTATE CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	39	0	178	257
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	735
ATHABASCA	0	0	0	0	0	0	0	0	0	975
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	189	141
BIG COUNTRY	0	0	0	0	0	0	0	146	0	662
CALGARY	0	0	0	0	0	0	3	35	72	323
CHINOOK	0	0	0	0	0	0	0	60	70	496
DRUMHELLER	0	0	0	0	2	0	0	0	70	704
EDMONTON	0	0	0	0	0	0	0	35	114	435
FOOTHILLS	0	0	0	0	0	0	0	74	100	871
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	10	0	30	0	670
LETHBRIDGE	0	0	0	0	0	0	39	0	248	373
MINBURN-VERMILION	0	0	0	0	0	0	0	0	404	111
MOUNT VIEW	0	0	0	0	0	0	0	0	153	460
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	237	138
PEACE RIVER	0	0	0	0	0	0	0	0	239	430
RED DEER REGIONAL	0	0	0	0	0	0	0	24	195	627
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	123	363
SOUTH PEACE	0	0	0	0	0	0	0	46	83	221
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	162	139
STURGEON	0	0	0	0	0	0	0	0	102	912
VEGREVILLE	0	0	0	0	0	0	0	0	134	448
WETOKA	0	0	0	0	0	0	0	59	235	214
ALBERTA	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**26**	**127**	**422**

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1988
PROSTATE CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	19	6	32	16	0.95	.
ALBERTA WEST CENTRAL	21	-3	44	12	1.05	.
ATHABASCA	27	3	51	6	1.35	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS EUREKA-WARNER	13	-2	27	21	0.65	.
BIG COUNTRY	30	-4	63	3	1.50	.
CALGARY	15	11	20	19	0.75	.
CHINOOK	22	5	38	10	1.10	.
DRUMHELLER	32	10	55	2	1.60	.
EDMONTON	20	15	25	14	1.00	.
FOOTHILLS	35	10	59	1	1.75	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	23	7	39	8	1.15	.
LETHBRIDGE	26	10	41	7	1.30	.
MINBURN-VERMILION	22	4	39	11	1.10	.
MOUNT VIEW	20	4	36	15	1.00	.
NORTH EASTERN ALBERTA	15	0	29	20	0.75	.
PEACE RIVER	23	3	44	9	1.15	.
RED DEER REGIONAL	28	16	41	5	1.40	.
SOUTHEASTERN ALBERTA	16	5	27	18	0.80	.
SOUTH PEACE	13	0	27	22	0.65	.
STONY PLAIN-LAC STE. ANNE	11	-2	24	23	0.55	.
STURGEON	30	14	47	4	1.50	.
VEGREVILLE	19	5	33	17	0.95	.
WETOKA	21	4	39	13	1.05	.
ALBERTA	**20**	**18**	**23**			

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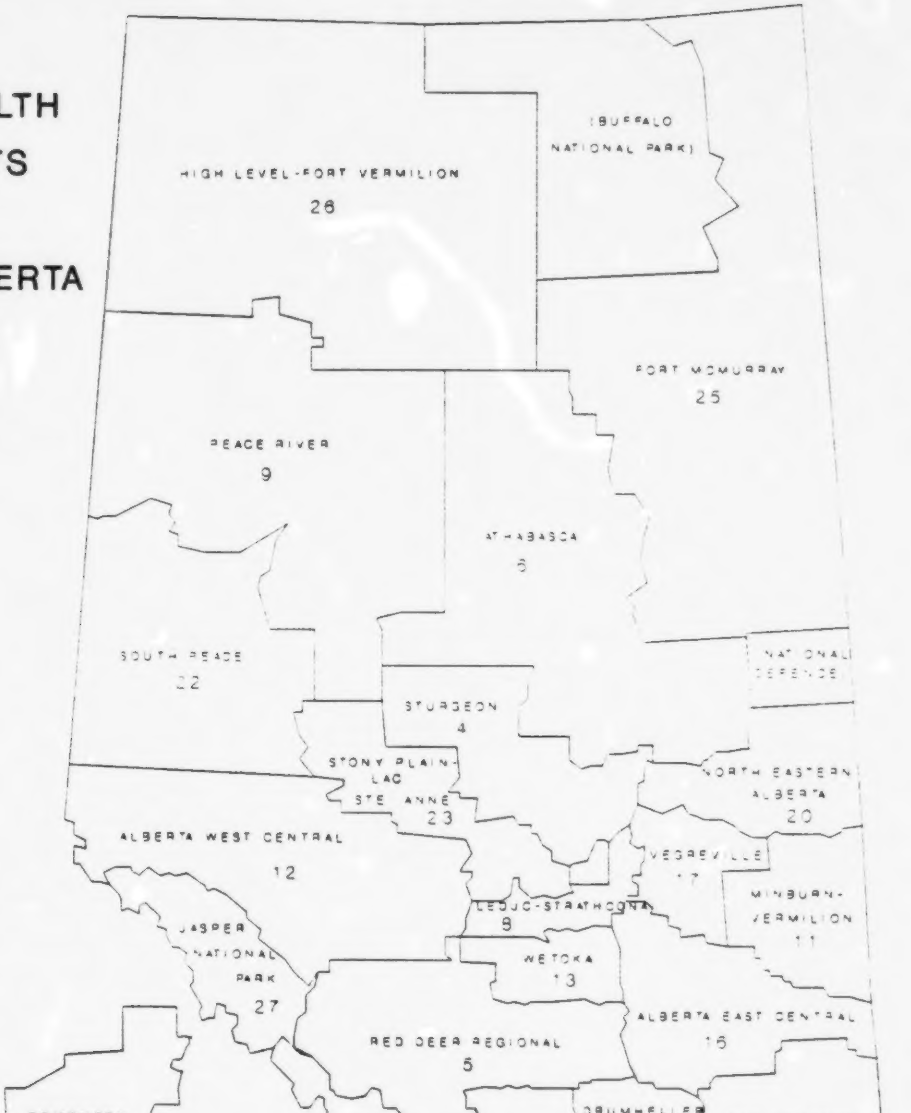
3.58

PROSTATE CANCER, MALES, 1988

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION 26
FORT MCMURRAY 25
PEACE RIVER 9
ATHABASCA 6
SOUTH PEACE 22
NATIONAL DEFENCE
STURGEON 4
STONY PLAIN-LAC STE. ANNE 23
NORTH EASTERN ALBERTA 20
ALBERTA WEST CENTRAL 12
VEGREVILLE 17
MINBURN-VERMILION 11
LEDUC-STRATHCONA 8
JASPER NATIONAL PARK 27
WETOKA 13
ALBERTA EAST CENTRAL 16
RED DEER REGIONAL 5
EDMONTON 14
DRUMHELLER 2
BIG COUNTRY 3
BANFF NATIONAL PARK 24
MOUNT VIEW 15
FOOTHILLS 1
SOUTHEASTERN ALBERTA 18
CALGARY 19
BARONS-EUREKA-WARNER 21
LETHBRIDGE 7
CHINOOK 10

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES
MALE, 1988

REGION / HEALTH UNIT		ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		PROSTATE CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
*		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
N	ATHABASCA	1,267.5	100	66.5	5.2	506.5	40.0	0.5	0.0	10.5	0.8	0.5	0.0	0.0	0.0	0.0	0.0	132.5	10.5	550.5	43.4
N	FORT MCMURRAY	1,171.0	100	30.5	2.6	182.0	15.5	21.0	1.8	21.5	1.8	10.5	0.9	0.0	0.0	0.0	0.0	162.0	13.8	743.5	63.5
N	HIGH LEVEL-FORT VERMILION	798.0	100	11.5	1.4	253.0	31.7	30.5	3.8	62.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	111.5	14.0	329.5	41.3
N	PEACE RIVER	2,053.5	100	233.0	11.3	426.0	20.7	52.5	2.6	10.5	0.5	31.5	1.5	1.0	0.0	0.0	0.0	222.5	10.8	1,076.5	52.4
N	SOUTH PEACE	2,171.0	100	128.5	5.9	485.5	22.4	72.0	3.3	21.5	1.0	0.0	0.0	11.0	0.5	10.5	0.5	335.5	15.5	1,106.5	51.0
	NORTH REGION SUM:	**7,461.0**	**100**	**470.0**	**6.3**	**1,853.0**	**24.8**	**176.5**	**2.4**	**126.0**	**1.7**	**42.5**	**0.6**	**12.0**	**0.2**	**10.5**	**0.1**	**964.0**	**12.9**	**3,806.5**	**51.0**
NC	ALBERTA WEST CENTRAL	1,626.0	100	205.0	12.6	293.5	18.1	0.5	0.0	33.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	61.0	3.8	1,032.5	63.5
NC	JASPER NATIONAL PARK	214.0	100	72.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0	10.5	4.9	0.0	0.0	0.0	0.0	30.5	14.3	101.0	47.2
NC	LEDUC-STRATHCONA	2,597.0	100	213.5	8.2	537.5	20.7	22.0	0.8	97.0	3.7	11.5	0.4	41.0	1.6	32.5	1.3	822.5	31.7	819.5	31.6
NC	MINBURN-VERMILION	1,201.5	100	107.5	8.9	163.0	13.6	12.0	1.0	43.0	3.6	1.5	0.1	2.5	0.2	51.5	4.3	202.5	16.9	618.0	51.4
NC	NORTH EASTERN ALBERTA	2,358.5	100	173.0	7.3	526.0	22.3	42.5	1.8	23.0	1.0	51.0	2.2	1.5	0.1	1.0	0.0	294.0	12.5	1,246.5	52.9
NC	STONY PLAIN-LAC STE. ANNE	2,159.0	100	292.0	13.5	596.5	27.6	0.5	0.0	114.5	5.3	12.0	0.6	1.0	0.0	12.5	0.6	213.5	9.9	916.5	42.5
NC	STURGEON	2,365.5	100	238.0	10.1	518.0	21.9	31.5	1.3	127.0	5.4	2.0	0.1	1.0	0.0	10.5	0.4	112.0	4.7	1,325.5	56.0
NC	VEGREVILLE	765.0	100	37.0	4.8	325.0	42.5	11.0	1.4	12.0	1.6	21.5	2.8	1.0	0.1	22.0	2.9	102.0	13.3	233.5	30.5
	NORTH CENTRAL REGION SUM:	**13,286.5**	**100**	**1,338.0**	**10.1**	**2,959.5**	**22.3**	**120.0**	**0.9**	**449.5**	**3.4**	**110.5**	**0.8**	**48.0**	**0.4**	**130.0**	**1.0**	**1,838.0**	**13.8**	**6,293.0**	**47.4**
EDMONTON		**19,631.5**	**100**	**1,964.0**	**10.0**	**1,883.5**	**9.6**	**391.5**	**2.0**	**693.0**	**3.5**	**216.5**	**1.1**	**91.5**	**0.5**	**318.0**	**1.6**	**2,660.0**	**13.5**	**11,413.5**	**58.1**
CALGARY		**17,337.5**	**100**	**1,985.0**	**11.4**	**1,699.0**	**9.8**	**314.0**	**1.8**	**591.0**	**3.4**	**186.5**	**1.1**	**109.0**	**0.6**	**358.0**	**2.1**	**2,264.0**	**13.1**	**9,831.0**	**56.7**
SC	ALBERTA EAST CENTRAL	1,665.0	100	248.5	14.9	203.0	12.2	1.5	0.1	54.5	3.3	42.5	2.6	22.5	1.4	43.0	2.6	142.5	8.6	907.0	54.5
SC	BANFF NATIONAL PARK	53.5	100	0.5	0.9	0.0	0.0	11.0	20.6	31.0	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	20.6
SC	BIG COUNTRY	354.5	100	54.0	15.2	192.0	54.2	2.0	0.6	10.5	3.0	0.0	0.0	10.5	3.0	0.5	0.1	51.0	14.4	34.0	9.6
SC	DRUMHELLER	1,314.0	100	90.0	6.8	41.0	3.1	0.0	0.0	42.0	3.2	62.5	4.8	1.5	0.1	23.0	1.8	213.0	16.2	841.0	64.0
SC	MOUNT VIEW	2,173.5	100	129.5	6.0	395.0	18.2	32.5	1.5	44.5	2.0	41.0	1.9	1.0	0.0	11.0	0.5	284.5	13.1	1,234.5	56.8
SC	RED DEER REGIONAL	4,258.0	100	400.0	9.4	777.0	18.2	44.0	1.0	181.5	4.3	134.0	3.1	13.5	0.3	43.5	1.0	315.5	7.4	2,349.0	55.2
SC	WETOKA	1,285.0	100	90.5	7.0	455.5	35.4	11.5	0.9	22.5	1.8	1.5	0.1	12.0	0.9	21.5	1.7	50.5	3.9	619.5	48.2
	SOUTH CENTRAL REGION SUM:	**11,103.5**	**100**	**1,013.0**	**9.1**	**2,063.5**	**18.6**	**102.5**	**0.9**	**386.5**	**3.5**	**281.5**	**2.5**	**61.0**	**0.5**	**142.5**	**1.3**	**1,057.0**	**9.5**	**5,996.0**	**54.0**
S	BARONS-EUREKA-WARNER	1,182.5	100	99.5	8.4	61.5	5.2	1.0	0.1	12.5	1.1	0.5	0.0	1.0	0.1	21.0	1.8	111.5	9.4	874.0	73.9
S	CHINOOK	1,184.5	100	123.0	10.4	162.0	13.7	11.0	0.9	44.0	3.7	11.5	1.0	11.0	0.9	0.0	0.0	51.0	4.3	771.0	65.1
S	FOOTHILLS	670.0	100	68.5	10.2	152.5	22.8	0.0	0.0	13.0	1.9	2.0	0.3	11.0	1.6	0.0	0.0	92.0	13.7	331.0	49.4
S	LETHBRIDGE	1,567.5	100	91.0	5.8	304.5	19.4	32.0	2.0	65.0	4.1	54.5	3.5	23.0	1.5	21.5	1.4	173.5	11.1	802.5	51.2
S	SOUTH EASTERN ALBERTA	2,719.5	100	259.0	9.5	567.5	20.9	32.0	1.2	87.5	3.2	13.0	0.5	1.5	0.1	0.5	0.0	112.5	4.1	1,646.0	60.5
	SOUTH REGION SUM:	**7,324.0**	**100**	**641.0**	**8.8**	**1,246.0**	**17.0**	**76.0**	**1.0**	**222.0**	**3.0**	**81.5**	**1.1**	**47.5**	**0.6**	**43.0**	**0.6**	**540.5**	**7.4**	**4,424.5**	**60.4**
	HEALTH UNIT TOTAL	**76,144.0**	**100**	**7,411.0**	**9.7**	**11,706.5**	**15.4**	**1,180.5**	**1.6**	**2,460.0**	**3.2**	**919.0**	**1.2**	**369.0**	**0.5**	**1,002.0**	**1.3**	**9,323.5**	**12.2**	**41,764.5**	**54.8**

*** N = NORTH, NC = NORTH CENTRAL, SC = SOUTH CENTRAL, and S = SOUTH**

CHART 3.60

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION, MALE, 1988

Percentage Distribution by Selected Preventable Causes

North, North Central, Edmonton, Calgary, South Central, South

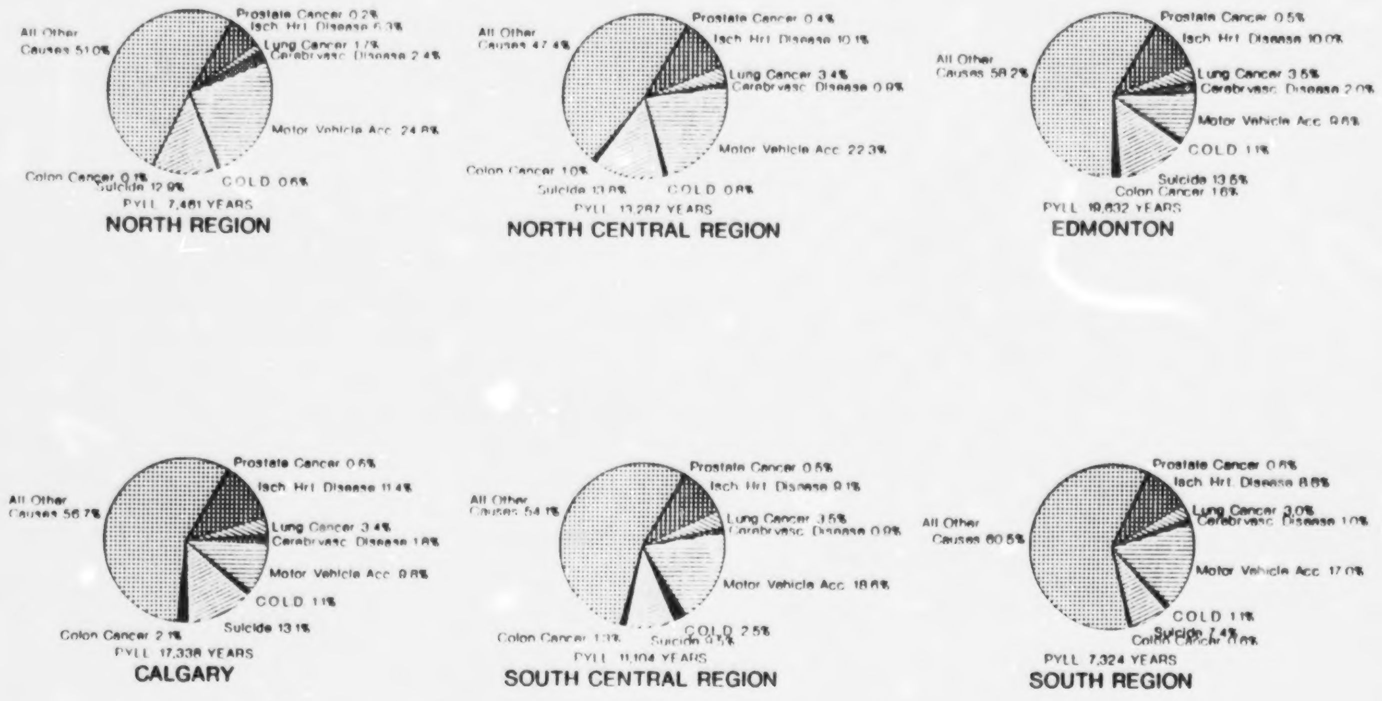
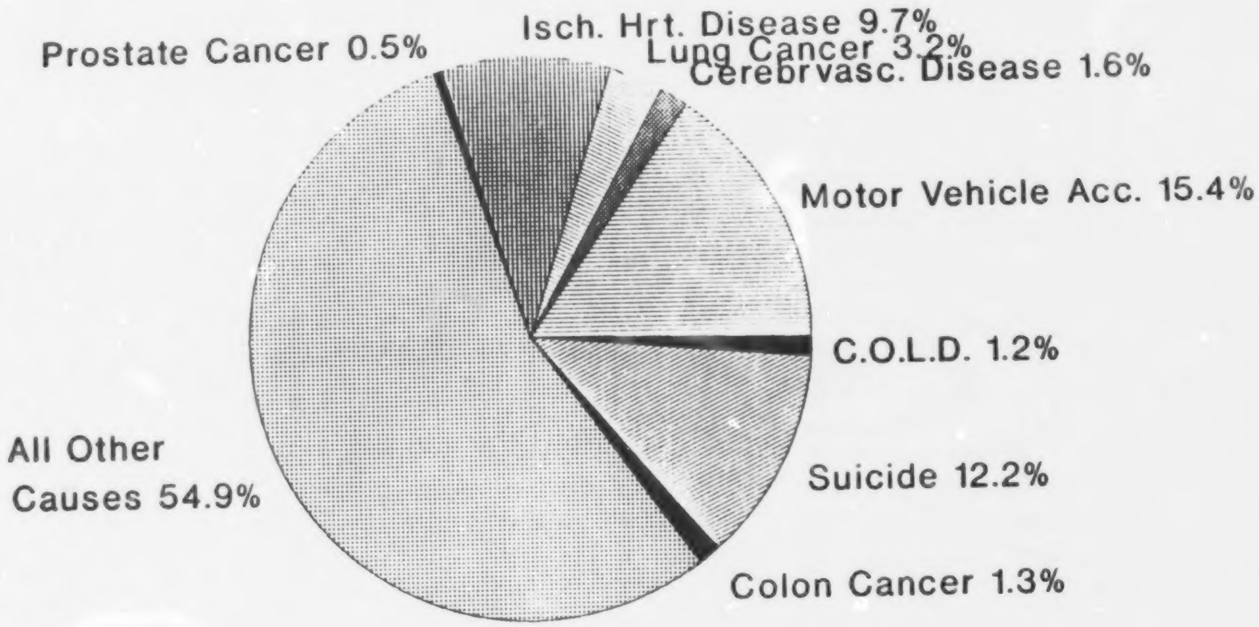


CHART 3.61

POTENTIAL YEARS OF LIFE LOST (PYLL): MALE, 1988

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL: 76,144 YEARS

CHAPTER 4

FEMALE DEATHS

1988

DESCRIPTION OF TABLES

This chapter deals with deaths in female population for the year 1988 by health units of Alberta. The layout of Chapter 4 is identical to that of Chapter 3 except that it includes female breast cancer instead of prostate cancer.

The causes of death selected for study are listed along with rubrics below:

CAUSE OF DEATH	ICD-9 RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Female Breast Cancer	174
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstructive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for female breast cancer which has been placed at the end of the chapter. Because of this arrangement the tables and figures in this chapter correspond by page numbers.

NUMBER IN POPULATION, FEMALE, 1988

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	372	1952	4295	3696	4012	3415	2454	2527	2595	1966	27284
ALBERTA WEST CENTRAL	346	1530	3301	3051	3751	2548	1731	1029	725	477	18489
ATHABASCA	334	1227	2866	2545	2467	1925	1272	981	749	494	14860
BANFF NATIONAL PARK	56	118	313	1143	878	525	290	202	142	89	3756
BARONS EUREKA-WARNER	329	1538	3619	2908	3004	2459	1711	1536	1227	951	19282
BIG COUNTRY	82	460	953	872	884	731	504	592	458	349	5885
CALGARY	5052	20484	41838	51850	72697	49224	30006	23723	16396	12221	323491
CHINOOK	346	1787	3531	2870	2972	2423	1721	1733	1638	1203	20224
DRUMHELLER	278	1187	2743	2387	2620	2081	1384	1281	1248	866	16075
EDMONTON	4667	17986	35420	50227	61977	38398	27181	23735	17537	12989	290117
FOOTHILLS	237	1117	2751	2059	2721	2597	1416	1255	1249	826	16228
FORT MCMURRAY	351	1491	3644	3213	4418	2944	1026	381	216	74	17758
HIGH LEVEL-FORT VERMILION	202	795	1808	1357	1139	651	411	168	116	89	6736
JASPER NATIONAL PARK	21	103	194	460	440	205	154	90	79	79	1825
LEDUC-STRATHCONA	732	3420	9762	7452	8970	9748	4820	2794	1838	1170	50706
LETHBRIDGE	411	1707	4277	4752	5545	4051	2782	2796	2609	2204	31134
MINBURN-VERMILION	318	1395	3130	2963	3307	2468	1545	1393	1410	1134	19063
MOUNT VIEW	464	2172	5003	3867	5791	4745	2748	2002	1595	990	29377
NORTH EASTERN ALBERTA	436	1811	4172	3977	3994	2879	1832	1418	1129	887	22535
PEACE RIVER	355	1459	3504	2913	3163	2328	1624	1191	862	587	17986
RED DEER REGIONAL	1026	4134	9418	9723	11588	8021	5175	4187	3421	2335	59028
SOUTHEASTERN ALBERTA	555	2526	5936	5769	6771	4948	3232	3179	2876	1967	37759
SOUTH PEACE	584	2503	5711	5344	6339	4176	2510	1910	1392	1052	31521
STONY PLAIN-LAC STE. ANNE	537	2494	6331	4361	6101	5230	2687	1841	1229	623	31434
STURGEON	732	3326	8660	6725	8436	7959	4344	2831	1964	1539	46516
VEGREVILLE	161	776	2270	1743	1949	1821	1391	1451	1482	1212	14256
WETOKA	298	1226	2762	2565	2974	2401	1798	1709	1446	1047	18226
ALBERTA	**19282**	**80724**	**178212**	**190792**	**238908**	**170901**	**107749**	**87935**	**67628**	**49420**	**1191551**

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AGE DISTRIBUTIONS (IN %) FEMALES, 1988

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.4	7.2	15.7	13.5	14.7	12.5	9.0	9.3	9.5	7.2
ALBERTA WEST CENTRAL	1.9	8.3	17.8	16.5	20.3	13.8	9.4	5.6	3.9	2.6
ATHABASCA	2.3	8.3	19.3	17.1	16.6	13.0	8.6	6.6	5.0	3.3
BANFF NATIONAL PARK	1.5	3.1	8.3	30.4	23.4	14.0	7.7	5.4	3.8	2.4
BARONS EUREKA-WARNER	1.7	8.0	18.8	15.1	15.6	12.8	8.9	8.0	6.4	4.9
BIG COUNTRY	1.4	7.8	16.2	14.8	15.0	12.4	8.6	10.1	7.8	5.9
CALGARY	1.6	6.3	12.9	16.0	22.5	15.2	91.3	7.3	5.1	3.8
CHINOOK	1.7	8.8	17.5	14.2	14.7	12.0	8.5	8.6	8.1	5.9
DRUMHELLER	1.7	7.4	17.1	14.8	16.3	13.0	8.6	8.0	7.8	5.4
EDMONTON	1.6	6.2	12.2	17.3	21.4	13.2	9.4	8.2	6.0	4.5
FOOTHILLS	1.5	6.9	17.0	12.7	16.8	16.0	8.7	7.7	7.7	5.1
FORT MCMURRAY	2.0	8.4	20.5	18.1	24.9	16.6	5.8	2.2	1.2	0.4
HIGH LEVEL-FORT VERMILION	3.2	11.8	26.8	20.2	16.9	9.7	6.1	2.5	1.7	1.3
JASPER NATIONAL PARK	1.2	5.6	10.6	25.2	24.1	11.2	8.4	4.9	4.3	4.3
LEDUC-STRATHCONA	1.4	6.7	19.2	14.7	17.7	19.2	9.5	5.5	3.6	2.3
LETHBRIDGE	1.3	5.5	13.7	15.3	17.8	13.0	8.9	9.0	8.8	7.1
MINBURN-VERMILION	1.7	7.3	16.4	15.5	17.4	13.0	8.1	7.3	7.4	6.0
MOUNT VIEW	1.6	7.4	17.0	13.2	19.7	16.2	9.4	6.8	5.4	3.4
NORTH EASTERN ALBERTA	1.9	8.1	18.5	17.7	17.7	12.8	8.1	6.3	5.0	3.9
PEACE RIVER	2.0	8.1	19.5	16.2	17.6	12.9	9.0	6.6	4.8	3.3
RED DEER REGIONAL	1.7	7.0	16.0	16.5	19.6	13.6	8.8	7.1	5.8	4.0
SOUTHEASTERN ALBERTA	1.5	6.7	15.7	15.3	17.9	13.1	8.6	8.4	7.6	5.2
SOUTH PEACE	1.9	7.9	18.1	17.0	20.1	13.3	8.0	6.1	4.4	3.3
STONY PLAIN-LAC STE. ANNE	1.7	7.9	20.1	13.9	19.4	16.6	8.6	5.9	3.9	2.0
STURGEON	1.6	7.2	18.6	14.5	18.1	17.1	9.3	6.1	4.2	3.3
VEGREVILLE	1.1	5.4	15.9	12.2	13.7	12.8	9.8	10.2	10.4	8.5
WETOKA	1.6	6.7	15.2	14.1	16.3	13.2	9.9	9.4	7.9	5.7
ALBERTA	**1.6**	**6.8**	**15.0**	**16.0**	**20.1**	**14.3**	**9.0**	**7.4**	**5.7**	**4.2**

NUMBER OF FEMALE DEATHS, 1988
ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	1	0	0	1	2	2	5	12	43	120	186
ALBERTA WEST CENTRAL	2	0	0	1	2	6	3	4	16	35	69
ATHABASCA	1	2	1	2	3	0	8	10	10	38	75
BANFF NATIONAL PARK	1	0	0	1	0	0	0	0	3	3	8
BARONS EUREKA-WARNER	2	0	2	1	2	2	6	5	22	42	84
BIG COUNTRY	1	0	0	0	1	0	3	1	7	15	28
CALGARY	29	4	5	25	27	55	110	152	290	845	1542
CHINOOK	2	0	0	1	4	4	4	10	27	101	153
DRUMHELLER	2	1	0	1	1	4	2	13	24	57	105
EDMONTON	44	4	4	15	35	61	82	145	263	843	1496
FOOTHILLS	2	0	0	0	1	0	2	8	16	56	85
FORT MCMURRAY	4	0	0	0	1	2	3	2	4	4	20
HIGH LEVEL-FORT VERMILION	3	0	0	0	2	1	1	2	3	7	19
JASPER NATIONAL PARK	0	0	0	0	1	1	0	0	0	3	5
LEDUC-STRATHCONA	6	2	2	5	4	6	10	28	33	70	166
LETHBRIDGE	3	1	0	3	1	3	9	24	35	133	212
MINBURN-VERMILION	1	1	0	0	1	3	3	3	14	60	86
MOUNT VIEW	1	1	0	3	3	7	8	19	27	66	135
NORTH EASTERN ALBERTA	2	0	1	0	1	3	2	14	19	53	95
PEACE RIVER	1	0	0	1	3	3	2	10	20	62	102
RED DEER REGIONAL	4	2	1	0	3	8	14	42	62	177	313
SOUTHEASTERN ALBERTA	2	1	0	4	0	6	12	19	43	136	223
SOUTH PEACE	4	0	0	0	2	4	8	13	22	80	133
STONY PLAIN-LAC STE. ANNE	7	1	3	2	2	4	6	17	20	51	113
STURGEON	5	1	0	4	5	7	10	15	37	124	208
VEGREVILLE	1	0	0	0	0	1	1	3	18	67	91
WETOKA	3	0	0	2	0	3	7	13	16	73	117
ALBERTA	**134**	**21**	**19**	**72**	**107**	**196**	**321**	**584**	**1094**	**3321**	**5869**

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	14-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	269	0	0	27	50	59	204	475	1657	6104
ALBERTA WEST CENTRAL	578	0	0	33	53	235	173	389	2207	7338
ATHABASCA	299	163	35	79	122	0	629	1019	1335	7692
BANFF NATIONAL PARK	1786	0	0	87	0	0	0	0	2113	3371
BARONS EUREKA-WARNER	608	0	55	34	67	81	351	326	1793	4416
BIG COUNTRY	1220	0	0	0	113	0	595	169	1528	4298
CALGARY	574	20	12	48	37	112	367	641	1769	6914
CHINOOK	578	0	0	35	135	165	232	577	1648	8396
DRUMHELLER	719	84	0	42	38	192	145	1015	1923	6582
EDMONTON	943	22	11	30	56	159	302	611	1500	6490
FOOTHILLS	844	0	0	0	37	0	141	637	1281	6780
FORT MCMURRAY	1140	0	0	0	23	68	292	525	1852	5405
HIGH LEVEL-FORT VERMILION	1485	0	0	0	176	154	243	1190	2586	7865
JASPER NATIONAL PARK	0	0	0	0	227	488	0	0	0	3797
LEDUC-STRATHCONA	820	58	20	67	45	62	207	1002	1795	5983
LETHBRIDGE	730	59	0	63	18	74	324	858	1342	6034
MINBURN-VERMILION	314	72	0	0	30	122	194	215	993	5291
MOUNT VIEW	216	46	0	78	52	148	291	949	1693	6667
NORTH EASTERN ALBERTA	459	0	24	0	25	104	109	987	1683	5975
PEACE RIVER	282	0	0	34	95	129	123	840	2320	10562
RED DEER REGIONAL	390	48	11	0	26	100	271	1003	1812	7580
SOUTHEASTERN ALBERTA	360	40	0	69	0	121	371	598	1495	6914
SOUTH PEACE	685	0	0	0	32	96	319	681	1580	7605
STONY PLAIN-LAC STE. ANNE	1304	40	47	46	33	76	223	923	1627	8186
STURGEON	683	30	0	59	59	88	230	530	1884	8057
VEGREVILLE	621	0	0	0	0	55	72	207	1215	5528
WETOKA	1007	0	0	78	0	125	389	761	1107	6972
ALBERTA	695	26	11	38	45	115	298	664	1618	6720

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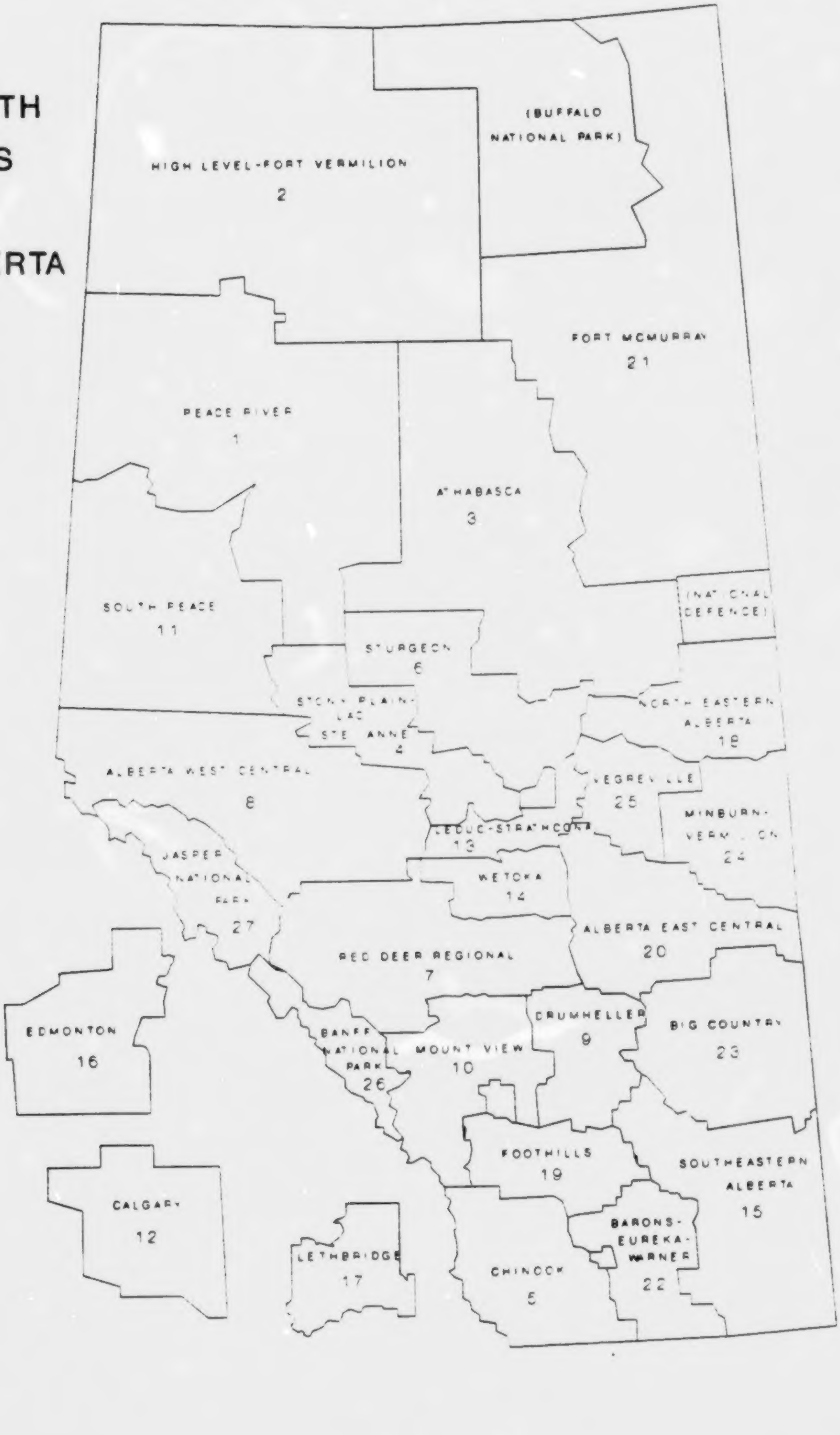
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	428	365	491	20	0.87	.
ALBERTA WEST CENTRAL	533	405	661	8	1.08	.
ATHABASCA	585	452	718	3	1.19	.
BANFF NATIONAL PARK	303	85	520	26	0.61	.
BARONS EUREKA-WARNER	389	306	473	22	0.79	.
BIG COUNTRY	374	232	515	23	0.76	.
CALGARY	511	486	537	12	1.04	.
CHINOOK	571	479	663	5	1.16	YES
DRUMHELLER	529	427	631	9	1.07	.
EDMONTON	484	459	509	16	0.98	.
FOOTHILLS	435	342	528	19	0.88	.
FORT MCMURRAY	427	176	679	21	0.87	.
HIGH LEVEL-FORT VERMILION	664	336	992	2	1.35	.
JASPER NATIONAL PARK	273	31	515	27	0.55	.
LEDUC-STRATHCONA	492	415	568	13	1.00	.
LETHBRIDGE	459	396	523	17	0.93	.
MINBURN-VERMILION	343	269	416	24	0.70	.
MOUNT VIEW	520	431	608	10	1.05	.
NORTH EASTERN ALBERTA	457	365	549	18	0.93	.
PEACE RIVER	690	556	825	1	1.40	YES
RED DEER REGIONAL	546	486	607	7	1.11	YES
SOUTHEASTERN ALBERTA	486	422	551	15	0.99	.
SOUTH PEACE	515	428	603	11	1.04	.
STONY PLAIN-LAC STE. ANNE	576	465	687	4	1.17	.
STURGEON	548	473	623	6	1.11	.
VEGREVILLE	338	266	409	25	0.69	.
WETOKA	490	401	580	14	0.99	.
ALBERTA	**493**	**480**	**505**			

4.6

ALL CAUSES, FEMALES, 1988

HEALTH UNITS OF ALBERTA



(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION
2
FORT MCMURRAY
21
PEACE RIVER
1
ATHABASCA
3
(NATIONAL DEFENCE)
SOUTH PEACE
11
STURGEON
6
STONY PLAIN-LAC STE. ANNE
4
NORTH EASTERN ALBERTA
18
ALBERTA WEST CENTRAL
8
VEGREVILLE
25
MINBURN-VERMILION
24
LEDUC-STRATHCONA
13
JASPER NATIONAL PARK
27
WETOKA
14
ALBERTA EAST CENTRAL
20
RED DEER REGIONAL
7
EDMONTON
16
DRUMHELLER
9
BIG COUNTRY
23
BANFF NATIONAL PARK
26
MOUNT VIEW
10
FOOTHILLS
19
SOUTHEASTERN ALBERTA
15
CALGARY
12
BARONS-EUREKA-WARNER
22
LETHBRIDGE
17
CHINOOK
5

4.7

NUMBER OF FEMALE DEATHS, 1988
ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	2	6	17	24	50
ALBERTA WEST CENTRAL	0	0	0	0	1	3	2	3	2	5	16
ATHABASCA	0	0	0	0	0	0	4	4	5	2	15
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	3	4
BARONS EUREKA-WARNER	0	0	0	0	1	0	3	3	8	5	20
BIG COUNTRY	0	0	0	0	1	0	2	0	3	3	9
CALGARY	0	1	1	1	7	25	58	92	121	151	457
CHINOOK	0	0	0	0	1	2	3	5	13	17	41
DRUMHELLER	0	0	0	0	1	2	2	9	9	10	33
EDMONTON	0	1	0	1	6	19	42	80	105	119	373
FOOTHILLS	0	0	0	0	0	0	1	6	3	7	17
FORT MCMURRAY	0	0	0	0	0	1	0	1	2	1	5
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	2	1	0	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	1	1	0	7	19	11	10	49
LETHBRIDGE	0	0	0	1	0	3	3	11	15	24	57
MINBURN-VERMILION	0	0	0	0	0	1	3	1	4	9	18
MOUNT VIEW	0	0	0	0	2	3	3	11	11	13	43
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	1	3	9	14
PEACE RIVER	0	0	0	0	0	3	1	5	6	14	29
RED DEER REGIONAL	0	0	0	0	0	2	9	22	22	29	84
SOUTHEASTERN ALBERTA	0	0	0	0	0	2	7	9	16	21	55
SOUTH PEACE	0	0	0	0	0	2	1	8	11	13	35
STONY PLAIN-LAC STE. ANNE	0	0	0	0	2	1	1	8	9	9	30
STURGEON	0	0	0	0	2	1	5	6	10	18	42
VEGREVILLE	0	0	0	0	0	0	0	1	6	11	18
WETOKA	0	0	0	1	0	0	3	56	6	13	29
ALBERTA	**0**	**2**	**1**	**5**	**25**	**71**	**163**	**319**	**420**	**540**	**1546**

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	29	81	237	655	1221
ALBERTA WEST CENTRAL	0	0	0	0	27	118	116	292	276	1048
ATHABASCA	0	0	0	0	0	0	314	408	668	405
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	704	3371
BARONS EUREKA-WARNER	0	0	0	0	33	0	175	195	652	526
BIG COUNTRY	0	0	0	0	113	0	397	0	655	860
CALGARY	0	5	2	2	10	51	193	388	738	1236
CHINOOK	0	0	0	0	34	83	174	289	794	1413
DRUMHELLER	0	0	0	0	38	96	145	703	721	1155
EDMONTON	0	6	0	2	10	49	155	337	599	916
FOOTHILLS	0	0	0	0	0	0	71	478	240	847
FORT MCMURRAY	0	0	0	0	0	34	0	262	926	1351
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	1190	862	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	13	11	0	145	680	598	855
LETHBRIDGE	0	0	0	21	0	74	108	393	575	1089
MINBURN-VERMILION	0	0	0	0	0	41	194	72	284	794
MOUNT VIEW	0	0	0	0	35	63	109	549	690	1313
NORTH EASTERN ALBERTA	0	0	0	0	0	0	55	71	266	1015
PEACE RIVER	0	0	0	0	0	129	62	420	696	2385
RED DEER REGIONAL	0	0	0	0	0	25	174	525	643	1242
SOUTHEASTERN ALBERTA	0	0	0	0	0	40	217	283	556	1068
SOUTH PEACE	0	0	0	0	0	48	40	419	790	1236
STONY PLAIN-LAC STE. ANNE	0	0	0	0	33	19	37	435	732	1445
STURGEON	0	0	0	0	24	13	115	212	509	1170
VEGREVILLE	0	0	0	0	0	0	0	69	405	908
WETOKA	0	0	0	39	0	0	167	351	415	1242
ALBERTA	0	2	1	3	10	42	151	363	621	1093

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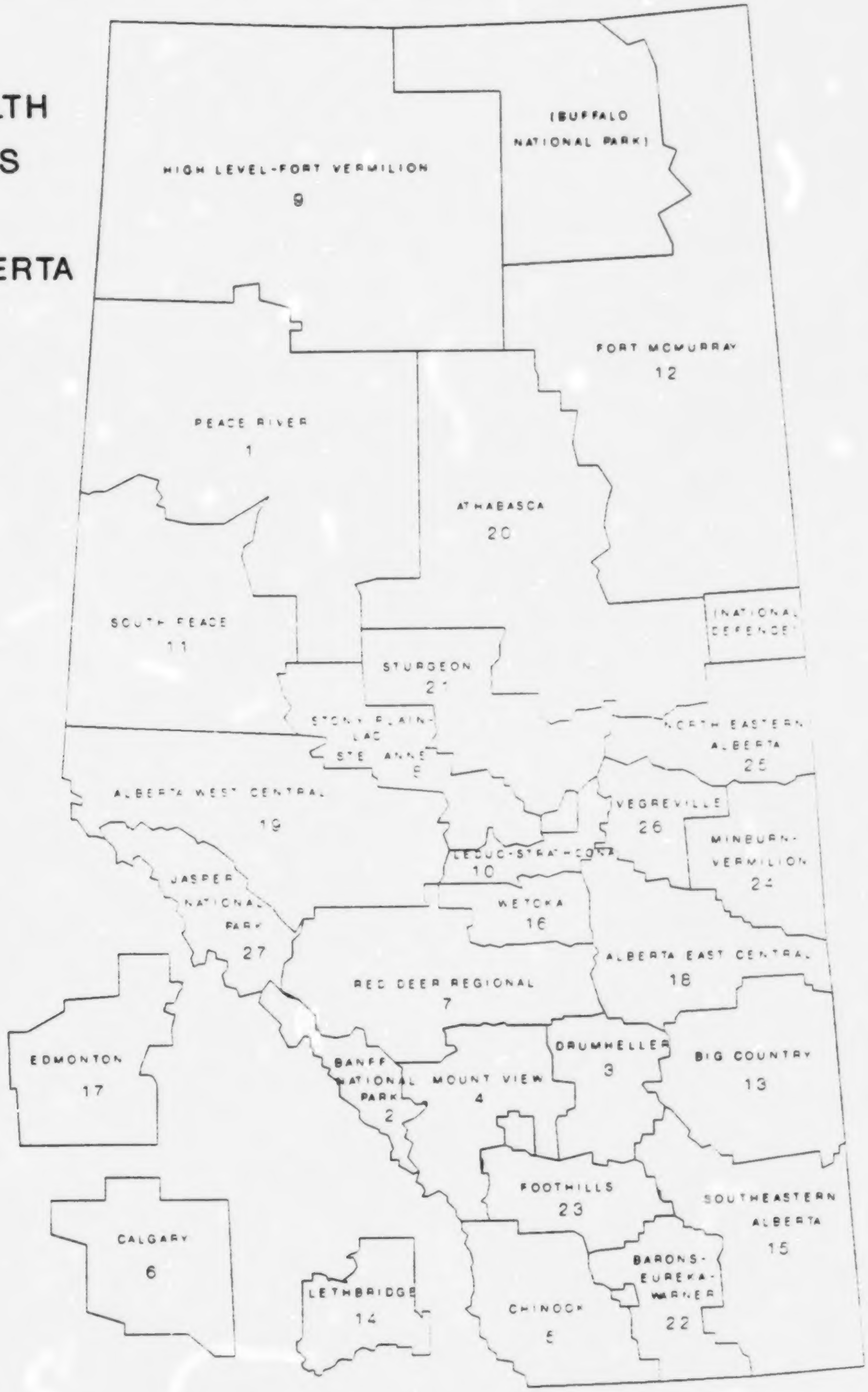
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	117	84	150	18	0.90	.
ALBERTA WEST CENTRAL	113	57	170	19	0.87	.
ATHABASCA	113	56	171	20	0.87	.
BANFF NATIONAL PARK	180	3	356	2	1.38	.
BARONS EUREKA-WARNER	96	54	138	22	0.74	.
BIG COUNTRY	131	43	220	13	1.01	.
CALGARY	149	136	163	6	1.15	YES
CHINOOK	159	109	209	5	1.22	.
DRUMHELLER	175	115	236	3	1.35	.
EDMONTON	121	108	133	17	0.93	.
FOOTHILLS	90	47	134	23	0.69	.
FORT MCMURRAY	133	-5	270	12	1.02	.
HIGH LEVEL-FORT VERMILION	137	-18	292	9	1.05	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	137	98	176	10	1.05	.
LETHBRIDGE	131	96	165	14	1.01	.
MINBURN-VERMILION	78	41	114	24	0.60	.
MOUNT VIEW	160	112	208	4	1.23	.
NORTH EASTERN ALBERTA	67	32	103	25	0.52	.
PEACE RIVER	193	123	264	1	1.48	YES
RED DEER REGIONAL	146	115	177	7	1.12	.
SOUTHEASTERN ALBERTA	122	90	155	15	0.94	.
SOUTH PEACE	137	92	183	11	1.05	.
STONY PLAIN-LAC STE. ANNE	146	92	200	8	1.12	.
STURGEON	110	77	143	21	0.85	.
VEGREVILLE	66	35	96	26	0.51	.
WETOKA	122	77	167	16	0.94	.
ALBERTA	**130**	**123**	**136**			

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
9
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
12
PEACE RIVER
1
ATHABASCA
20
SOUTH PEACE
11
(NATIONAL DEFENCE)
STURGEON
21
STONY PLAIN-LAC STE. ANNE
8
NORTH EASTERN ALBERTA
25
ALBERTA WEST CENTRAL
19
VEGREVILLE
26
MINBURN-VERMILION
24
LEDUC-STRATHCONA
10
JASPER NATIONAL PARK
27
WETOKA
16
ALBERTA EAST CENTRAL
18
RED DEER REGIONAL
7
EDMONTON
17
DRUMHELLER
3
BIG COUNTRY
13
BANFF NATIONAL PARK
2
MOUNT VIEW
4
FOOTHILLS
23
SOUTHEASTERN ALBERTA
15
CALGARY
6
BARONS-EUREKA-WARNER
22
LETHBRIDGE
14
CHINOOK
5

4.10
ALL CAUSES, FEMALES, 1988

NUMBER OF FEMALE DEATHS, 1988
COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	3	3
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	0	0	0	1
ATHABASCA	0	0	0	0	0	0	1	1	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	1	2
BARONS EUREKA-WARNER	0	0	0	0	0	0	2	1	0	0	3
BIG COUNTRY	0	0	0	0	0	0	0	0	1	1	2
CALGARY	0	0	0	0	0	1	6	5	8	22	42
CHINOOK	0	0	0	0	0	0	0	0	0	2	2
DRUMHELLER	0	0	0	0	0	0	0	3	1	1	5
EDMONTON	0	0	0	0	0	2	4	4	11	18	39
FOOTHILLS	0	0	0	0	0	0	0	1	0	2	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	1	2	3	6
LETHBRIDGE	0	0	0	0	0	0	1	0	0	2	3
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	0	0	0	0	0	0	0	1	1	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	0	0	1
PEACE RIVER	0	0	0	0	0	0	0	0	1	2	3
RED DEER REGIONAL	0	0	0	0	0	0	1	0	3	4	8
SOUTHEASTERN ALBERTA	0	0	0	0	1	0	0	1	1	4	7
SOUTH PEACE	0	0	0	0	0	0	0	1	3	5	9
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	1	1
STURGEON	0	0	0	0	0	0	0	2	1	3	6
VEGREVILLE	0	0	0	0	0	0	0	0	0	3	3
WETOKA	0	0	0	0	0	0	0	1	0	2	3
ALBERTA	0	0	0	0	0	5	15	22	34	81	157

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
COLON CANCER

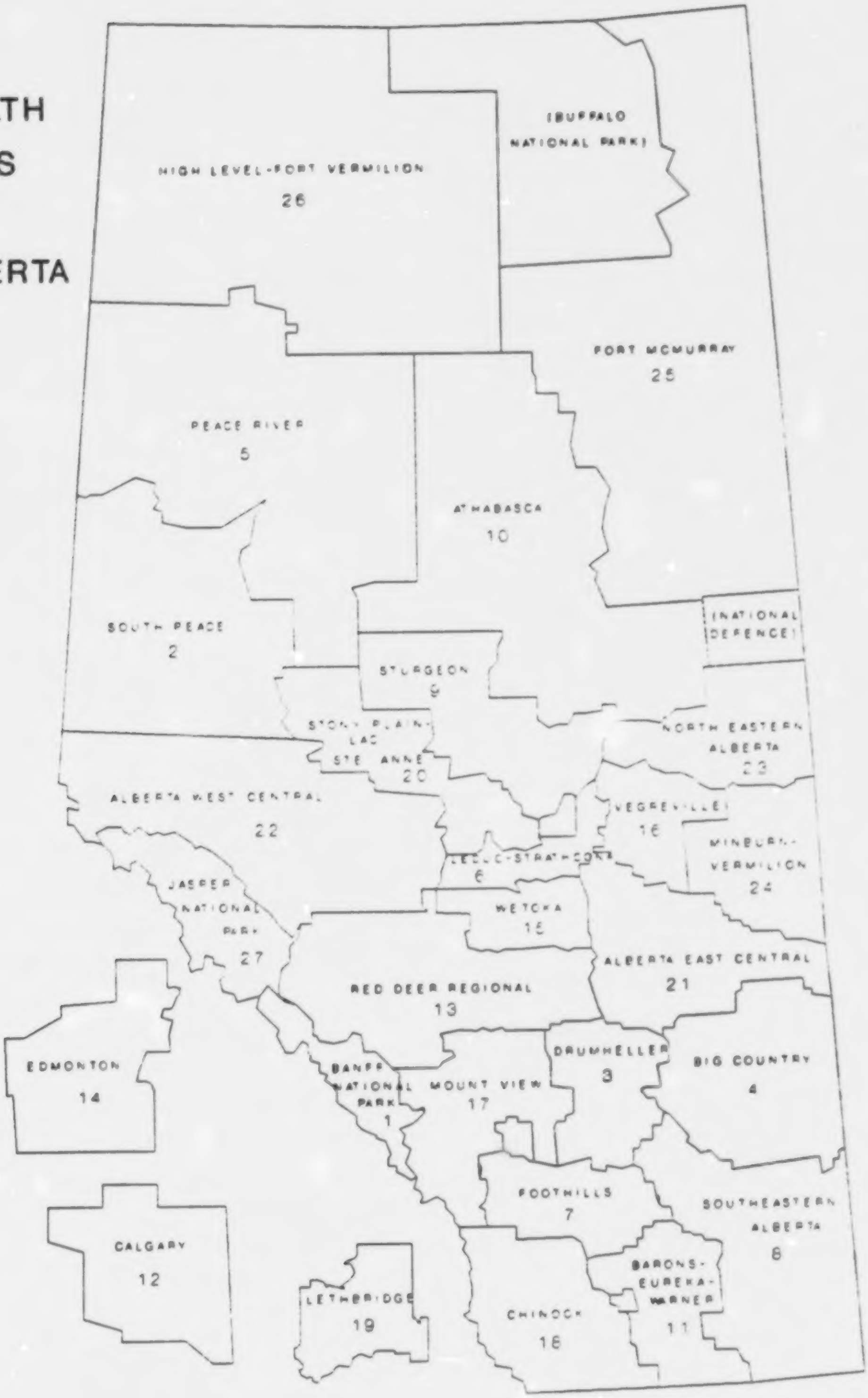
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	153
ALBERTA WEST CENTRAL	0	0	0	0	0	39	0	0	0	0
ATHABASCA	0	0	0	0	0	0	79	102	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	704	1124
BARONS EUREKA-WARNER	0	0	0	0	0	0	117	65	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	218	287
CALGARY	0	0	0	0	0	2	20	21	49	180
CHINOOK	0	0	0	0	0	0	0	0	0	166
DRUMHELLER	0	0	0	0	0	0	0	234	80	115
EDMONTON	0	0	0	0	0	5	15	17	63	139
FOOTHILLS	0	0	0	0	0	0	0	80	0	242
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	36	109	256
LETHBRIDGE	0	0	0	0	0	0	36	0	0	91
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	88
MOUNT VIEW	0	0	0	0	0	0	0	0	63	101
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	71	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	116	341
RED DEER REGIONAL	0	0	0	0	0	0	19	0	88	171
SOUTHEASTERN ALBERTA	0	0	0	0	0	20	0	31	35	203
SOUTH PEACE	0	0	0	0	0	0	0	52	216	475
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	161
STURGEON	0	0	0	0	0	0	0	71	51	195
VEGREVILLE	0	0	0	0	0	0	0	0	0	248
WETOKA	0	0	0	0	0	0	0	59	0	191
ALBERTA	0	0	0	0	0	3	14	25	50	164

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	6	-1	13	21	0.46	.
ALBERTA WEST CENTRAL	6	-5	17	22	0.46	.
ATHABASCA	15	-6	35	10	1.15	.
BANFF NATIONAL PARK	87	-34	207	1	6.69	.
BARONS EUREKA-WARNER	15	-2	33	11	1.15	.
BIG COUNTRY	24	-9	58	4	1.85	.
CALGARY	14	10	18	12	1.08	.
CHINOOK	7	-3	16	18	0.54	.
DRUMHELLER	27	3	50	3	2.08	.
EDMONTON	13	9	17	14	1.00	.
FOOTHILLS	16	-2	34	7	1.23	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	19	4	35	6	1.46	.
LETHBRIDGE	7	-1	15	19	0.54	.
MINBURN-VERMILION	4	-4	11	24	0.31	.
MOUNT VIEW	8	-3	19	17	0.62	.
NORTH EASTERN ALBERTA	5	-5	15	23	0.38	.
PEACE RIVER	21	-3	44	5	1.62	.
RED DEER REGIONAL	14	4	23	13	1.08	.
SOUTHEASTERN ALBERTA	16	4	27	8	1.23	.
SOUTH PEACE	36	12	59	2	2.77	YES
STONY PLAIN-LAC STE. ANNE	7	-6	20	20	0.54	.
STURGEON	16	3	29	9	1.23	.
VEGREVILLE	10	-1	22	16	0.77	.
WETOKA	12	-2	26	15	0.92	.
ALBERTA	**13**	**11**	**15**			

4.14 COLON CANCER, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION 26
(BUFFALO NATIONAL PARK)
FORT MCMURRAY 25
PEACE RIVER 5
ATHABASCA 10
SOUTH PEACE 2
(NATIONAL DEFENCE)
STURGEON 9
STONY PLAIN-LAC STE ANNE 20
NORTH EASTERN ALBERTA 23
ALBERTA WEST CENTRAL 22
VEGREVILLE 16
LEDUC-STRATHCONA 6
MINBURN-VERMILION 24
JASPER NATIONAL PARK 27
WETOKA 15
ALBERTA EAST CENTRAL 21
RED DEER REGIONAL 13
DRUMHELLER 3
BIG COUNTRY 4
EDMONTON 14
BANFF NATIONAL PARK 1
MOUNT VIEW 17
FOOTHILLS 7
SOUTHEASTERN ALBERTA 8
CALGARY 12
BARONS-EUREKA-WARNER 11
LETHBRIDGE 19
CHINOOK 18

NUMBER OF FEMALE DEATHS, 1988
LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	1	1	6	3	12
ALBERTA WEST CENTRAL	0	0	0	0	0	1	1	1	0	0	3
ATHABASCA	0	0	0	0	0	0	0	0	1	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	1	1	0	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	1	4	21	23	20	69
CHINOOK	0	0	0	0	0	0	0	2	3	1	6
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	1	5	17	28	16	67
FOOTHILLS	0	0	0	0	0	0	0	1	2	0	3
FORT MCMURRAY	0	0	0	0	1	0	0	0	2	0	3
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	2	4	1	0	7
LETHBRIDGE	0	0	0	0	0	1	1	1	3	2	8
MINBURN-VERMILION	0	0	0	0	0	0	1	0	0	2	3
MOUNT VIEW	0	0	0	0	0	0	0	1	3	1	5
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	2	5	7
PEACE RIVER	0	0	0	0	0	0	1	0	1	2	4
RED DEER REGIONAL	0	0	0	0	0	0	4	6	2	3	15
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	2	2	3	1	8
SOUTH PEACE	0	0	0	0	0	0	0	2	1	0	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	2	3	0	5
STURGEON	0	0	0	0	0	0	1	0	0	1	2
VEGREVILLE	0	0	0	0	0	0	0	1	0	1	2
WETOKA	0	0	0	0	0	0	0	0	0	2	2
ALBERTA	0	0	0	0	0	6	23	63	85	60	237

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	29	41	40	231	153
ALBERTA WEST CENTRAL	0	0	0	0	0	39	58	97	0	0
ATHABASCA	0	0	0	0	0	0	0	0	134	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	65	81	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	2	13	89	140	164
CHINOOK	0	0	0	0	0	0	0	115	183	83
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	3	18	72	160	123
FOOTHILLS	0	0	0	0	0	0	0	80	160	0
FORT MCMURRAY	0	0	0	0	0	34	0	0	926	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	41	143	54	0
LETHBRIDGE	0	0	0	0	0	25	36	36	115	91
MINBURN-VERMILION	0	0	0	0	0	0	65	0	0	176
MOUNT VIEW	0	0	0	0	0	0	0	50	188	101
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	177	564
PEACE RIVER	0	0	0	0	0	0	62	0	116	341
RED DEER REGIONAL	0	0	0	0	0	0	77	143	58	128
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	62	63	104	51
SOUTH PEACE	0	0	0	0	0	0	0	105	72	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	109	244	0
STURGEON	0	0	0	0	0	0	23	0	0	65
VEGREVILLE	0	0	0	0	0	0	0	69	0	83
WETOKA	0	0	0	0	0	0	0	0	0	191
ALBERTA	0	0	0	0	0	4	21	72	126	121

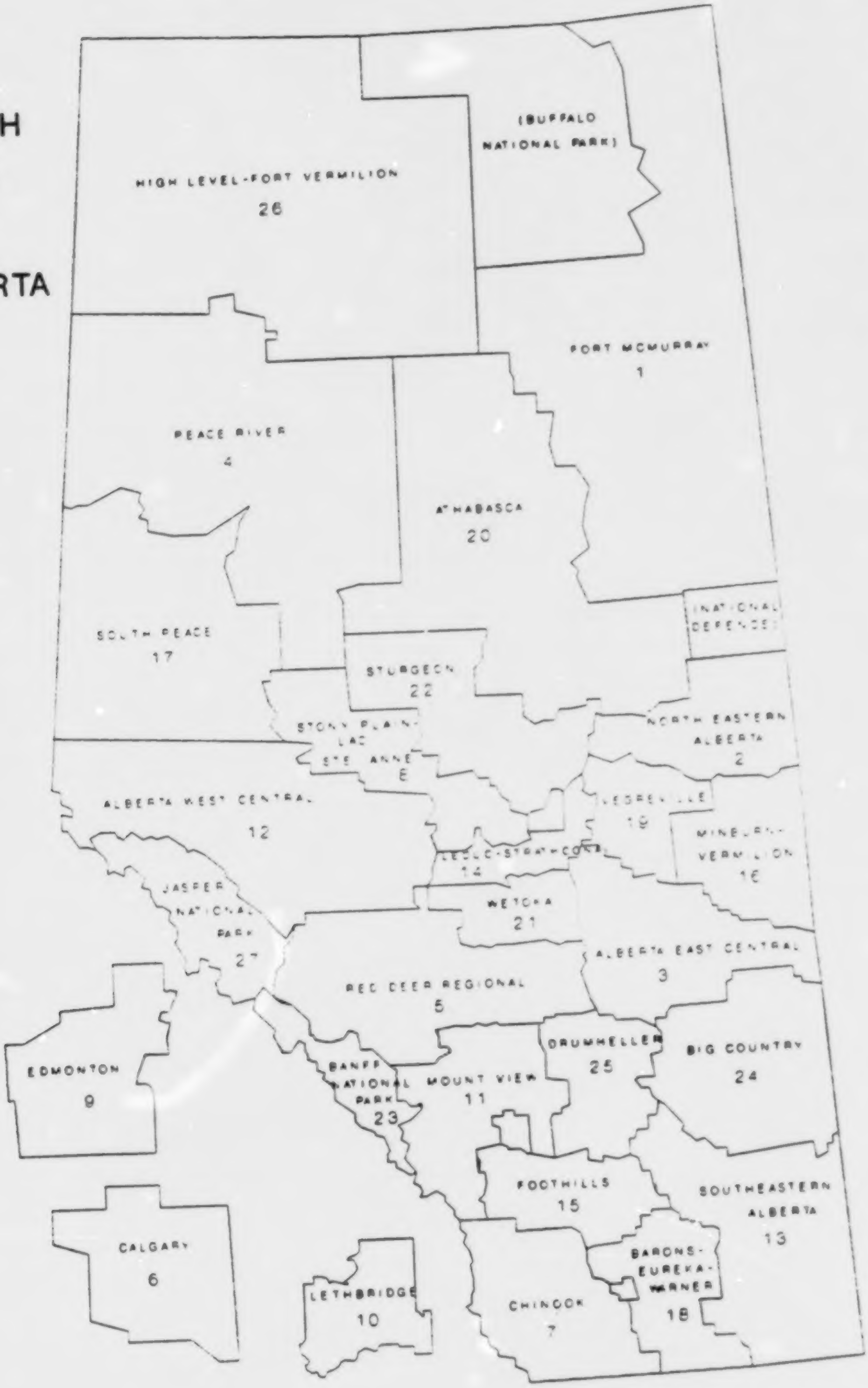
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	30	13	48	3	1.50	.
ALBERTA WEST CENTRAL	18	-3	39	12	0.90	.
ATHABASCA	8	-7	22	20	0.40	.
BANFF NATIONAL PARK	0	0	0	23	0-00	.
BARONS EUREKA-WARNER	9	-4	23	18	0.45	.
BIG COUNTRY	0	0	0	24	0.00	.
CALGARY	23	17	28	6	1.15	.
CHINOOK	22	4	40	7	1.10	.
DRUMHELLER	0	0	0	25	0.00	.
EDMONTON	21	16	27	9	1.05	.
FOOTHILLS	15	-2	32	15	0.75	.
FORT MCMURRAY	57	-16	131	1	2.85	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	17	4	30	14	0.85	.
LETHBRIDGE	20	6	34	10	1.00	.
MINBURN-VERMILION	13	-2	28	16	0.65	.
MOUNT VIEW	19	2	35	11	0.95	.
NORTH EASTERN ALBERTA	33	9	58	2	1.65	.
PEACE RIVER	26	0	52	4	1.30	.
RED DEER REGIONAL	26	13	39	5	1.30	.
SOUTHEASTERN ALBERTA	18	5	31	13	0.90	.
SOUTH PEACE	12	-2	25	17	0.60	.
STONY PLAIN-LAC STE. ANNE	22	3	41	8	1.10	.
STURGEON	5	-2	11	22	0.25	.
VEGREVILLE	9	-4	21	19	0.45	.
WETOKA	8	-3	19	21	0.40	.
ALBERTA	**20**	**17**	**22**			

4.18

LUNG CANCER, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
26
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
1
PEACE RIVER
4
ATHABASCA
20
SOUTH PEACE
17
(NATIONAL DEFENCE)
STURGEON
22
STONY PLAIN-LAC STE. ANNE
8
NORTH EASTERN ALBERTA
2
ALBERTA WEST CENTRAL
12
VEGREVILLE
19
MINBURN-VERMILION
16
LEDUC-STRATHCONA
14
JASPER NATIONAL PARK
27
WETOKA
21
ALBERTA EAST CENTRAL
3
RED DEER REGIONAL
5
EDMONTON
9
DRUMHELLER
25
BIG COUNTRY
24
BANFF NATIONAL PARK
23
MOUNT VIEW
11
FOOTHILLS
15
SOUTHEASTERN ALBERTA
13
CALGARY
6
BARONS-EUREKA-WARNER
18
LETHBRIDGE
10
CHINOOK
7

NUMBER OF FEMALE DEATHS, 1988
DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	2	2
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	1	0	0	0	0	7	8
BANFF NATIONAL PARK	0	0	0	1	0	0	0	0	0	0	1
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	2	2	4
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	1	1	1	0	0	7	18	28
CHINOOK	0	0	0	0	0	0	0	0	0	4	4
DRUMHELLER	0	0	0	0	0	0	0	0	0	1	1
EDMONTON	0	0	0	0	2	1	2	5	6	18	34
FOOTHILLS	0	0	0	0	0	0	0	0	0	1	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	1	1
LETHBRIDGE	0	0	0	0	0	0	0	2	0	6	8
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	0	0	1	0	0	0	0	0	1	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	1	1
PEACE RIVER	0	0	0	0	0	0	0	0	0	2	2
RED DEER REGIONAL	0	0	0	0	0	0	0	0	4	7	11
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	4	4
SOUTH PEACE	0	0	0	0	0	0	0	0	1	1	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0	0
STURGEON	0	0	0	0	0	0	0	0	2	3	5
VEGREVILLE	0	0	0	0	0	0	0	0	1	0	1
WETOKA	0	0	0	0	0	0	0	0	0	1	1
ALBERTA	0	0	0	3	4	2	2	7	23	81	122

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
DAIBETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	102
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	41	0	0	0	0	1417
BANFF NATIONAL PARK	0	0	0	87	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	163	210
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	2	1	2	0	0	43	147
CHINOOK	0	0	0	0	0	0	0	0	0	333
DRUMHELLER	0	0	0	0	0	0	0	0	0	115
EDMONTON	0	0	0	0	3	3	7	21	34	139
FOOTHILLS	0	0	0	0	0	0	0	0	0	121
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	85
LETHBRIDGE	0	0	0	0	0	0	0	72	0	272
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	88
MOUNT VIEW	0	0	0	0	0	0	0	0	0	101
NORTH EASTERN ALBERTA	0	0	0	26	0	0	0	0	0	113
PEACE RIVER	0	0	0	0	0	0	0	0	0	341
RED DEER REGIONAL	0	0	0	0	0	0	0	0	117	300
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	203
SOUTH PEACE	0	0	0	0	0	0	0	0	72	95
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0
STURGEON	0	0	0	0	0	0	0	0	102	195
VEGREVILLE	0	0	0	0	0	0	0	0	67	0
WETOKA	0	0	0	0	0	0	0	0	0	96
ALBERTA	0	0	0	2	2	1	2	8	34	164

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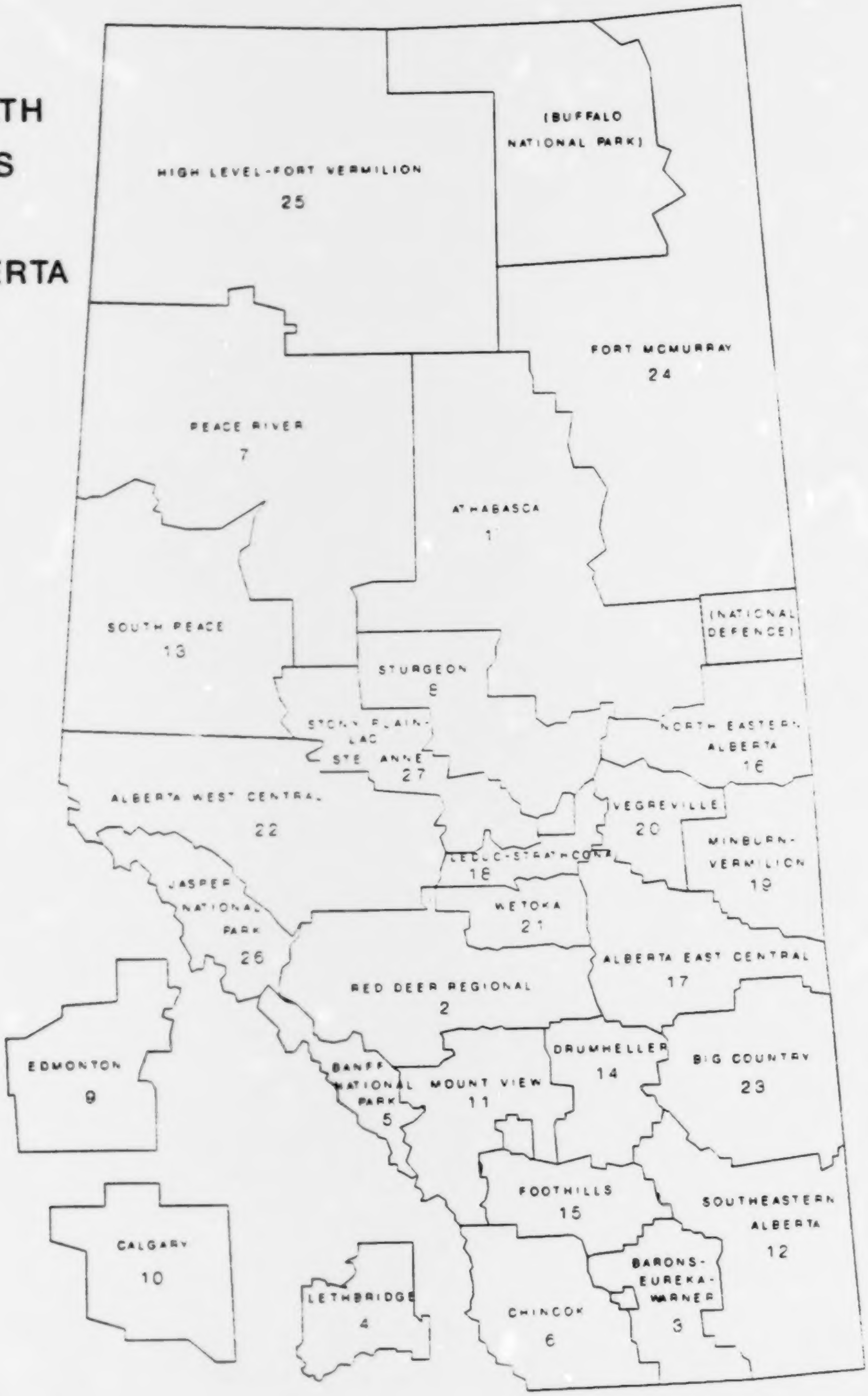
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	4	-2	10	17	0.4	.
ALBERTA WEST CENTRAL	0	0	0	22	0.0	.
ATHABASCA	67	21	113	1	6.7	YES
BANFF NATIONAL PARK	14	-13	41	5	1.4	.
BARONS EUREKA-WARNER	18	0	36	3	1.8	.
BIG COUNTRY	0	0	0	23	0.0	.
CALGARY	9	6	13	10	0.9	.
CHINOOK	14	0	27	6	1.4	.
DRUMHELLER	5	-5	14	14	0.5	.
EDMONTON	11	7	15	9	1.1	.
FOOTHILLS	5	-5	15	15	0.5	.
FORT MCMURRAY	0	0	0	24	0.0	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.0	.
JASPER NATIONAL PARK	0	0	0	26	0.0	.
LEDUC-STRATHCONA	4	-3	10	18	0.4	.
LETHBRIDGE	17	5	28	4	1.7	.
MINBURN-VERMILION	4	-4	11	19	0.4	.
MOUNT VIEW	8	-3	20	11	0.8	.
NORTH EASTERN ALBERTA	5	-4	14	16	0.5	.
PEACE RIVER	14	-5	34	7	1.4	.
RED DEER REGIONAL	19	8	30	2	1.9	.
SOUTHEASTERN ALBERTA	8	0	17	12	0.8	.
SOUTH PEACE	8	-3	19	13	0.8	.
STONY PLAIN-LAC STE. ANNE	0	0	0	27	0.0	.
STURGEON	14	2	26	8	1.4	.
VEGREVILLE	4	-4	11	20	0.4	.
WETOKA	4	-4	12	21	0.4	.
ALBERTA	10	8	12			

4.22

DIABETES MELLITUS, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
25
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
24
PEACE RIVER
7
ATHABASCA
1
SOUTH PEACE
13
(NATIONAL DEFENCE)
STURGEON
8
STONY PLAIN-LAC STE. ANNE
27
NORTH EASTERN ALBERTA
16
ALBERTA WEST CENTRAL
22
VEGREVILLE
20
MINBURN-VERMILION
19
LEDUC-STRATHCONA
18
JASPER NATIONAL PARK
26
WETOKA
21
ALBERTA EAST CENTRAL
17
RED DEER REGIONAL
2
EDMONTON
9
DRUMHELLER
14
BIG COUNTRY
23
BANFF NATIONAL PARK
5
MOUNT VIEW
11
FOOTHILLS
15
SOUTHEASTERN ALBERTA
12
CALGARY
10
BARONS-EUREKA-WARNER
3
LETHBRIDGE
4
CHINOOK
6

NUMBER OF FEMALE DEATHS, 1988
ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	4	12	25	41
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	0	6	14	21
ATHABASCA	0	0	0	0	0	0	0	1	1	8	10
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	2	4	14	20
BIG COUNTRY	0	0	0	0	0	0	0	1	1	3	5
CALGARY	0	0	0	0	1	1	8	14	61	182	267
CHINOOK	0	0	0	0	0	0	1	2	8	27	38
DRUMHELLER	0	0	0	0	0	0	0	0	6	19	25
EDMONTON	0	0	0	0	1	0	4	12	51	233	301
FOOTHILLS	0	0	0	0	0	0	0	0	3	13	16
FORT MCMURRAY	0	0	0	0	0	1	0	1	0	1	3
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	2	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	2	2
LEDUC-STRATHCONA	0	0	0	0	0	2	0	5	6	30	43
LETHBRIDGE	0	0	0	0	0	0	1	2	6	47	56
MINBURN-VERMILION	0	0	0	0	0	0	0	0	4	17	21
MOUNT VIEW	0	0	0	0	0	0	0	1	7	19	27
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	3	5	10	19
PEACE RIVER	0	0	0	0	0	0	0	1	5	15	21
RED DEER REGIONAL	0	0	0	0	0	1	1	4	11	47	64
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	2	1	10	42	55
SOUTH PEACE	0	0	0	0	0	2	0	0	5	24	31
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	3	5	12	20
STURGEON	0	0	0	0	0	0	1	3	10	31	45
VEGREVILLE	0	0	0	0	0	0	1	1	6	22	30
WETOKA	0	0	0	0	0	0	0	1	4	19	24
ALBERTA	**0**	**0**	**0**	**0**	**2**	**8**	**20**	**62**	**238**	**878**	**1208**

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	158	462	1272
ALBERTA WEST CENTRAL	0	0	0	0	0	0	58	0	828	2935
ATHABASCA	0	0	0	0	0	0	0	102	134	1619
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	130	326	1472
BIG COUNTRY	0	0	0	0	0	0	0	169	218	860
CALGARY	0	0	0	0	1	2	27	59	372	1489
CHINOOK	0	0	0	0	0	0	58	115	488	2244
DRUMHELLER	0	0	0	0	0	0	0	0	481	2194
EDMONTON	0	0	0	0	2	0	15	51	291	1794
FOOTHILLS	0	0	0	0	0	0	0	0	240	1574
FORT MCMURRAY	0	0	0	0	0	34	0	262	0	1351
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	862	2247
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	2532
LEDUC-STRATHCONA	0	0	0	0	0	21	0	179	326	2564
LETHBRIDGE	0	0	0	0	0	0	36	72	230	2132
MINBURN-VERMILION	0	0	0	0	0	0	0	0	284	1499
MOUNT VIEW	0	0	0	0	0	0	0	50	439	1919
NORTH EASTERN ALBERTA	0	0	0	0	0	35	0	212	443	1127
PEACE RIVER	0	0	0	0	0	0	0	84	580	2555
RED DEER REGIONAL	0	0	0	0	0	12	19	96	322	2013
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	62	31	348	2135
SOUTH PEACE	0	0	0	0	0	48	0	0	359	2281
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	163	407	1926
STURGEON	0	0	0	0	0	0	23	106	509	2014
VEGREVILLE	0	0	0	0	0	0	72	69	405	1815
WETOKA	0	0	0	0	0	0	0	59	277	1815
ALBERTA	0	0	0	0	1	5	19	71	352	1777

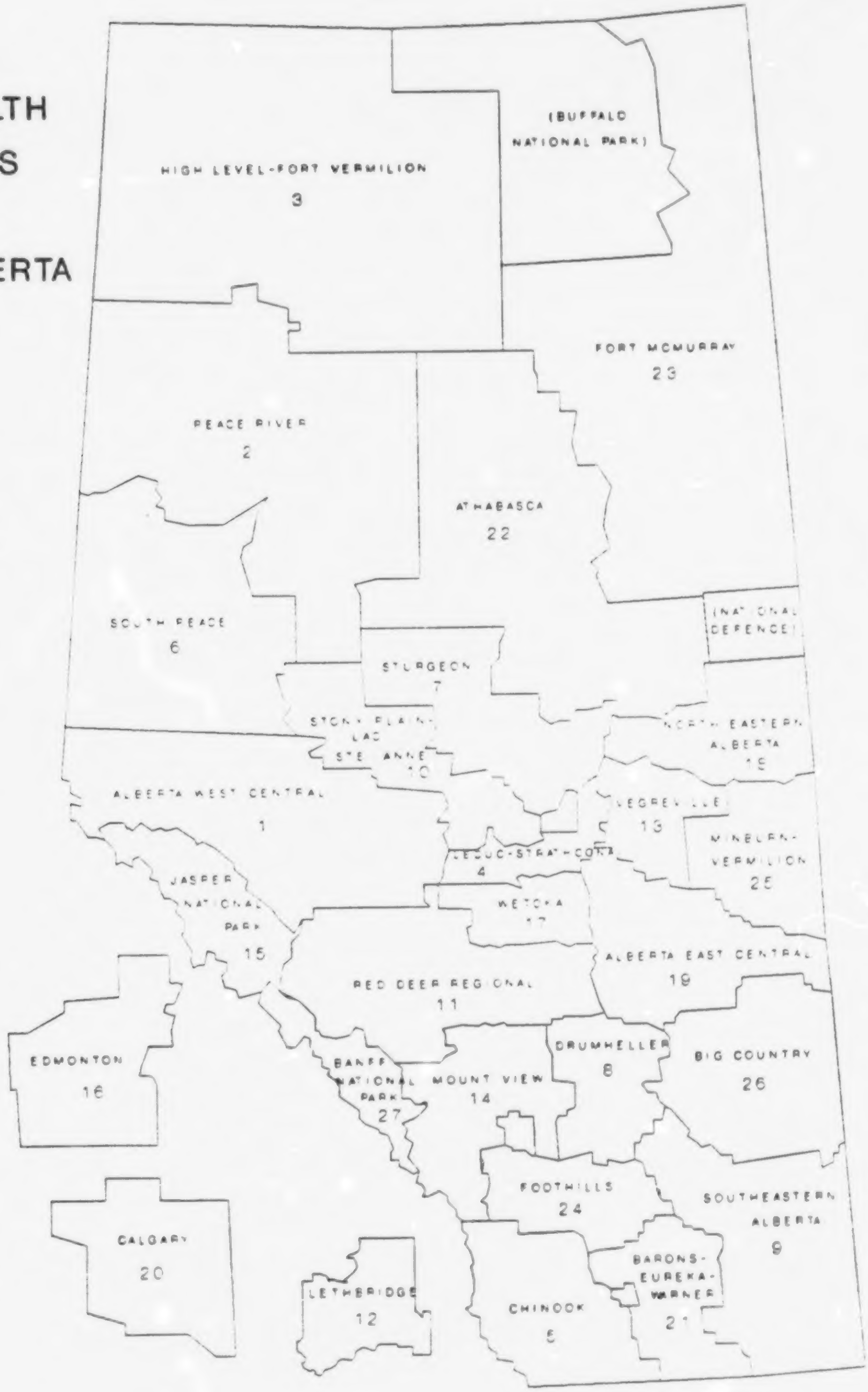
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
ISCHEMIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	91	63	119	19	0.90	.
ALBERTA WEST CENTRAL	174	99	249	1	1.72	YES
ATHABASCA	82	31	133	22	0.81	.
BANFF NATIONAL PARK	0	0	0	27	0.00	.
BARONS EUREKA-WARNER	89	50	128	21	0.88	.
BIG COUNTRY	61	7	114	26	0.60	.
CALGARY	90	79	101	20	0.89	.
CHINOOK	135	92	178	5	1.34	.
DRUMHELLER	118	72	165	8	1.17	.
EDMONTON	96	85	107	16	0.95	.
FOOTHILLS	79	40	118	24	0.78	.
FORT MCMURRAY	80	-36	197	23	0.79	.
HIGH LEVEL-FORT VERMILION	142	-19	303	3	1.41	.
JASPER NATIONAL PARK	105	-41	251	15	1.04	.
LEDUC-STRATHCONA	141	98	184	4	1.40	YES
LETHBRIDGE	110	81	139	12	1.09	.
MINBURN-VERMILION	78	45	112	25	0.77	.
MOUNT VIEW	108	67	149	14	1.07	.
NORTH EASTERN ALBERTA	92	51	134	18	0.91	.
PEACE RIVER	145	83	207	2	1.44	.
RED DEER REGIONAL	112	85	140	11	1.11	.
SOUTHEASTERN ALBERTA	116	85	147	9	1.15	.
SOUTH PEACE	122	79	165	6	1.21	.
STONY PLAIN-LAC STE. ANNE	115	64	166	10	1.14	.
STURGEON	122	87	158	7	1.21	.
VEGREVILLE	110	70	150	13	1.09	.
WETOKA	95	57	133	17	0.94	.
ALBERTA	**101**	**96**	**107**			

4.26

ISCHEMIC HEART DISEASE, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
3
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
23
PEACE RIVER
2
ATHABASCA
22
SOUTH PEACE
6
(NATIONAL DEFENCE)
STURGEON
7
STONY PLAIN-LAC STE. ANNE
10
NORTH EASTERN ALBERTA
18
ALBERTA WEST CENTRAL
1
VEGREVILLE
13
MINBURN-VERMILION
25
LEDUC-STRATHCONA
4
JASPER NATIONAL PARK
15
WETOKA
17
ALBERTA EAST CENTRAL
19
RED DEER REGIONAL
11
EDMONTON
16
DRUMHELLER
8
BIG COUNTRY
26
BANFF NATIONAL PARK
27
MOUNT VIEW
14
FOOTHILLS
24
SOUTHEASTERN ALBERTA
9
CALGARY
20
BARONS-EUREKA-WARNER
21
LETHBRIDGE
12
CHINOOK
5

NUMBER OF FEMALE DEATHS, 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	0	18	19
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	4	5
ATHABASCA	0	0	0	0	0	0	1	1	0	5	7
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	3	8	11
BIG COUNTRY	0	0	0	0	0	0	0	0	0	2	2
CALGARY	0	0	0	0	2	1	4	5	25	118	155
CHINOOK	0	0	0	0	0	0	0	0	0	17	17
DRUMHELLER	0	0	0	0	0	1	0	0	3	3	7
EDMONTON	0	0	0	0	2	2	4	4	14	100	126
FOOTHILLS	0	0	0	0	0	0	0	0	2	9	11
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	1	1	4	9	16
LETHBRIDGE	0	0	0	0	0	0	1	0	3	15	19
MINBURN-VERMILION	0	0	0	0	0	0	0	1	2	11	14
MOUNT VIEW	0	0	0	0	0	0	2	3	0	14	19
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	2	11	14
PEACE RIVER	0	0	0	0	0	0	0	1	1	9	11
RED DEER REGIONAL	0	0	1	0	0	0	1	0	2	26	30
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	1	4	23	28
SOUTH PEACE	0	0	0	0	0	0	0	0	0	9	9
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	0	7	8
STURGEON	0	0	0	0	0	0	1	0	1	22	24
VEGREVILLE	0	0	0	0	0	0	0	0	3	8	11
WETOKA	0	0	0	0	0	0	0	1	0	11	12
ALBERTA	**0**	**0**	**1**	**0**	**4**	**5**	**15**	**21**	**70**	**459**	**575**

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	40	0	916
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	138	839
ATHABASCA	0	0	0	0	0	0	79	102	0	1012
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	244	841
BIG COUNTRY	0	0	0	0	0	0	0	0	0	573
CALGARY	0	0	0	0	3	2	13	21	152	966
CHINOOK	0	0	0	0	0	0	0	0	0	1413
DRUMHELLER	0	0	0	0	0	48	0	0	240	346
EDMONTON	0	0	0	0	3	5	15	17	80	770
FOOTHILLS	0	0	0	0	0	0	0	0	160	1090
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	10	21	36	218	769
LETHBRIDGE	0	0	0	0	0	0	36	0	115	681
MINBURN-VERMILION	0	0	0	0	0	0	0	72	142	970
MOUNT VIEW	0	0	0	0	0	0	73	150	0	1414
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	71	177	1240
PEACE RIVER	0	0	0	0	0	0	0	84	116	1533
RED DEER REGIONAL	0	0	11	0	0	0	19	0	58	1113
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	31	139	1169
SOUTH PEACE	0	0	0	0	0	0	0	0	0	856
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	54	0	1124
STURGEON	0	0	0	0	0	0	23	0	51	1429
VEGREVILLE	0	0	0	0	0	0	0	0	202	660
WETOKA	0	0	0	0	0	0	0	59	0	1051
ALBERTA	0	0	1	0	2	3	14	24	104	929

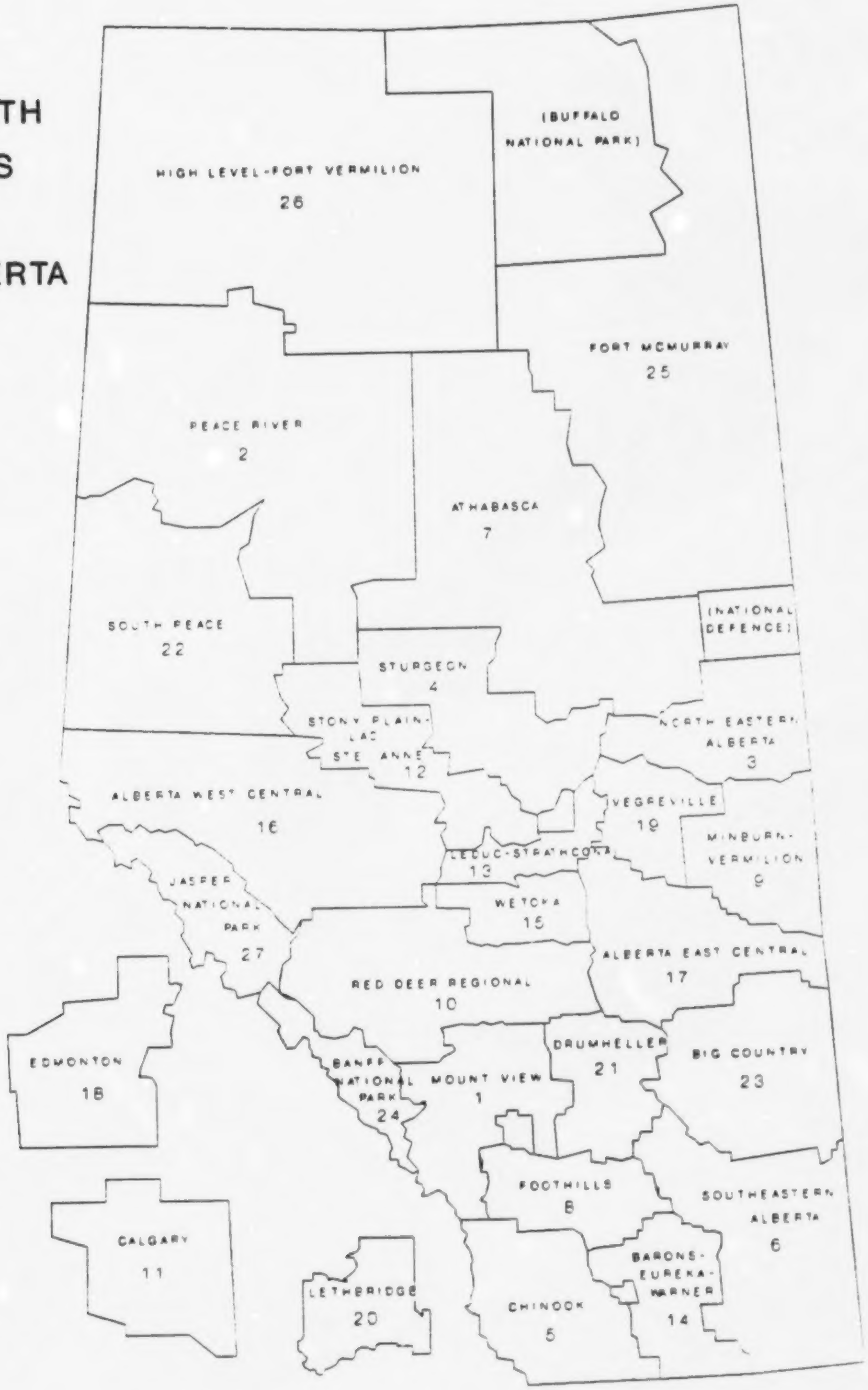
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	41	22	59	17	0.85	.
ALBERTA WEST CENTRAL	43	5	80	16	0.90	.
ATHABASCA	57	15	99	7	1.19	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS EUREKA-WARNER	49	20	78	14	1.02	.
BIG COUNTRY	24	-9	57	23	0.50	.
CALGARY	52	44	61	11	1.08	.
CHINOOK	59	31	86	5	1.23	.
DRUMHELLER	35	9	61	21	0.73	.
EDMONTON	40	33	47	18	0.83	.
FOOTHILLS	54	22	86	8	1.13	.
FORT MCMURRAY	0	0	0	25	0-00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0-00	.
JASPER NATIONAL PARK	0	0	0	27	000	.
LEDUC-STRATHCONA	SO	25	75	13	1.04	.
LETHBRIDGE	38	21	55	20	0.79	.
MINBURN-VERMILION	54	25	82	9	1.13	.
MOUNT VIEW	76	42	111	1	1.58	.
NORTH EASTERN ALBERTA	67	32	102	3	1.40	.
PEACE RIVER	76	31	122	2	1.58	.
RED DEER REGIONAL	53	34	72	10	1.10	.
SOUTHEASTERN ALBERTA	59	37	80	6	1.23	.
SOUTH PEACE	35	12	59	22	0.73	.
STONY PLAIN-LAC STE. ANNE	51	15	86	12	1.06	.
STURGEON	64	39	90	4	1.33	.
VEGREVILLE	39	16	62	19	0.81	.
WETOKA	48	21	75	15	1.00	.
ALBERTA	48	44	52			

4.30

CEREBROVASCULAR DISEASE, FEMALES, 1988

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION 26
FORT MCMURRAY 25
PEACE RIVER 2
ATHABASCA 7
SOUTH PEACE 22
(NATIONAL DEFENCE)
STURGEON 4
STONY PLAIN-LAC STE. ANNE 12
NORTH EASTERN ALBERTA 3
ALBERTA WEST CENTRAL 16
VEGREVILLE 19
MINBURN-VERMILION 9
LEDUC-STRATHCONA 13
JASPER NATIONAL PARK 27
WETOKA 15
ALBERTA EAST CENTRAL 17
RED DEER REGIONAL 10
DRUMHELLER 21
BIG COUNTRY 23
EDMONTON 18
BANFF NATIONAL PARK 24
MOUNT VIEW 1
FOOTHILLS 8
SOUTHEASTERN ALBERTA 6
CALGARY 11
BARONS-EUREKA-WARNER 14
LETHBRIDGE 20
CHINOOK 5

NUMBER OF FEMALE DETAHS, 1988
PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	0	0	7	8
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	1	2
ATHABASCA	0	0	0	0	0	0	0	1	0	2	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	1	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	1	2	3
CALGARY	1	1	0	0	0	0	0	0	8	40	50
CHINOOK	0	0	0	0	0	0	0	0	0	2	2
DRUMHELLER	0	0	0	0	0	0	0	0	0	5	5
EDMONTON	1	1	0	0	0	3	0	4	6	39	54
FOOTHILLS	0	0	0	0	0	0	0	0	0	2	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	0	0	0	5	6
LETHBRIDGE	0	0	0	0	0	0	1	0	0	13	14
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	3	3
MOUNT VIEW	0	0	0	0	0	0	1	0	1	3	5
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	1	1
PEACE RIVER	0	0	0	0	0	0	0	0	2	3	5
RED DEER REGIONAL	0	0	0	0	0	1	1	0	2	9	13
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	0	1	6	8
SOUTH PEACE	0	0	0	0	0	0	0	0	0	2	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	4	5
STURGEON	0	0	0	0	0	0	0	0	0	3	3
VEGREVILLE	0	0	0	0	0	0	0	0	0	6	6
WETOKA	0	0	0	0	0	0	0	2	1	7	10
ALBERTA	2	2	0	0	0	5	5	7	25	165	211

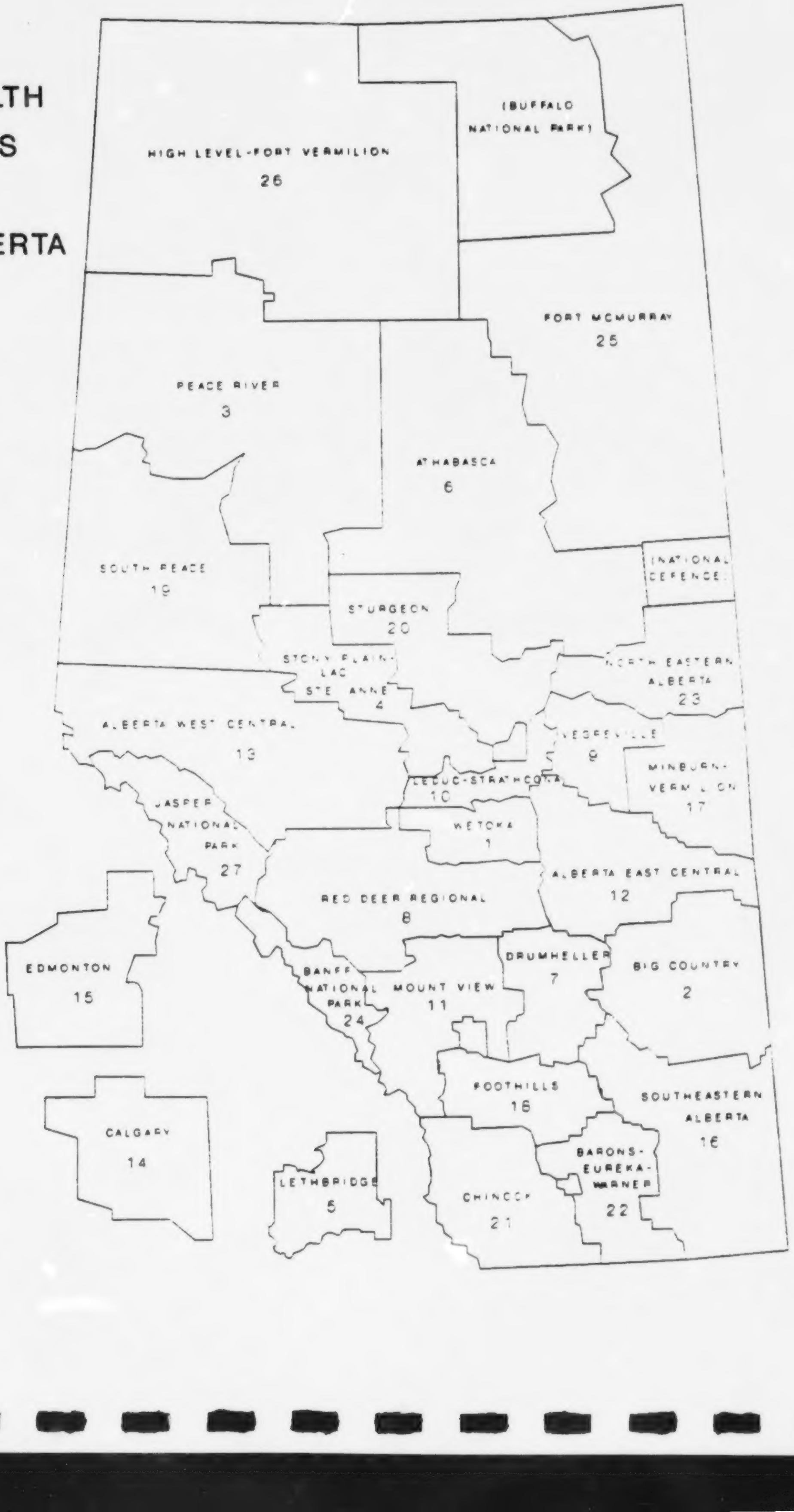
AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-55	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	41	0	0	356
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	138	210
ATHABASCA	0	0	0	0	0	0	0	102	0	405
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	81	0
BIG COUNTRY	0	0	0	0	0	0	0	0	218	573
CALGARY	20	5	0	0	0	0	0	0	49	327
CHINOOK	0	0	0	0	0	0	0	0	0	166
DRUMHELLER	0	0	0	0	0	0	0	0	0	577
EDMONTON	21	6	0	0	0	8	0	17	34	300
FOOTHILLS	0	0	0	0	0	0	0	0	0	242
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	10	0	0	0	427
LETHBRIDGE	0	0	0	0	0	0	36	0	0	590
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	265
MOUNT VIEW	0	0	0	0	0	0	36	0	63	303
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	113
PEACE RIVER	0	0	0	0	0	0	0	0	232	511
RED DEER REGIONAL	0	0	0	0	0	12	19	0	58	385
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	31	0	35	305
SOUTH PEACE	0	0	0	0	0	0	0	0	0	190
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	81	642
STURGEON	0	0	0	0	0	0	0	0	0	195
VEGREVILLE	0	0	0	0	0	0	0	0	0	495
WETOKA	0	0	0	0	0	0	0	117	69	669
ALBERTA	10	2	0	0	0	3	5	8	37	334

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	18	5	32	12	1.00	.
ALBERTA WEST CENTRAL	17	-6	39	13	0.94	.
ATHABASCA	24	-3	52	6	133	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS EUREKA-WARNER	5	-4	14	22	0.28	.
BIG COUNTRY	36	-5	77	2	2.00	.
CALGARY	17	12	22	14	0.94	.
CHINOOK	7	-3	16	21	0.39	.
DRUMHELLER	24	3	45	7	1.33	.
EDMONTON	17	13	22	15	0.94	.
FOOTHILLS	10	-4	24	18	0.56	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	19	3	35	10	1.06	.
LETHBRIDGE	28	13	42	5	1.56	.
MINBURN-VERMILION	11	-1	23	17	0.61	.
MOUNT VIEW	19	2	37	11	1.06	.
NORTH EASTERN ALBERTA	5	-4	14	23	0.28	.
PEACE RIVER	34	4	65	3	1.89	.
RED DEER REGIONAL	23	10	35	8	1.28	.
SOUTHEASTERN ALBERTA	17	5	30	16	0.94	.
SOUTH PEACE	8	-3	19	19	0.44	.
STONY PLAIN-LAC STE. ANNE	31	4	59	4	1.72	.
STURGEON	8	-1	17	20	0.44	.
VEGREVILLE	21	4	37	9	1.17	.
WETOKA	40	15	65	1	2.22	YES
ALBERTA	**18**	**15**	**20**			

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
26
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
25
PEACE RIVER
3
ATHABASCA
6
SOUTH PEACE
19
(NATIONAL DEFENCE)
STURGEON
20
STONY PLAIN-LAC STE ANNE
4
NORTH EASTERN ALBERTA
23
ALBERTA WEST CENTRAL
13
VEGREVILLE
9
MINBURN-VERMILION
17
JASPER NATIONAL PARK
27
LEDUC-STRATHCONA
10
WETOKA
1
ALBERTA EAST CENTRAL
12
RED DEER REGIONAL
8
EDMONTON
15
BANFF NATIONAL PARK
24
MOUNT VIEW
11
DRUMHELLER
7
BIG COUNTRY
2
FOOTHILLS
16
SOUTHEASTERN ALBERTA
18
CALGARY
14
LETHBRIDGE
5
CHINOOK
21
BARONS-EUREKA-WARNER
22

4.34

PNEUMONIA, FEMALES, 1988

NUMBER OF FEMALE DEATHS, 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	1	0	0	0	2	3	6
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	2	2	4
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	1	0	0	1	0	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	0	1	7	17	35	60
CHINOOK	0	0	0	0	0	0	0	0	1	2	3
DRUMHELLER	0	0	0	0	0	0	0	0	2	0	2
EDMONTON	0	0	0	0	0	0	2	5	7	18	32
FOOTHILLS	0	0	0	0	0	0	0	1	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	1	0	4	0	5
LETHBRIDGE	0	0	0	0	0	0	0	1	3	1	5
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	2	3
MOUNT VIEW	0	0	0	0	0	0	0	1	0	0	1
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	0	0	3	4
PEACE RIVER	0	0	0	0	0	0	1	1	0	0	2
RED DEER REGIONAL	0	0	0	0	0	0	0	1	7	9	17
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	1	1
SOUTH PEACE	0	0	0	0	0	0	0	1	0	2	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	2	1	0	4
STURGEON	0	0	0	0	0	0	1	2	1	2	6
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	1	0	1
ALBERTA	0	0	0	0	1	1	8	22	50	80	162

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	25	0	0	0	77	153
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	276	419
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	41	0	0	81	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	0	3	30	104	286
CHINOOK	0	0	0	0	0	0	0	0	61	166
DRUMHELLER	0	0	0	0	0	0	0	0	160	0
EDMONTON	0	0	0	0	0	0	7	21	40	139
FOOTHILLS	0	0	0	0	0	0	0	80	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	21	0	218	0
LETHBRIDGE	0	0	0	0	0	0	0	36	115	45
MINBURN-VERMILION	0	0	0	0	0	0	0	0	71	176
MOUNT VIEW	0	0	0	0	0	0	0	50	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	55	0	0	338
PEACE RIVER	0	0	0	0	0	0	62	84	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	24	205	385
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	51
SOUTH PEACE	0	0	0	0	0	0	0	52	0	190
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	37	109	81	0
STURGEON	0	0	0	0	0	0	23	71	51	130
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	69	0
ALBERTA	0	0	0	0	0	1	7	25	74	162

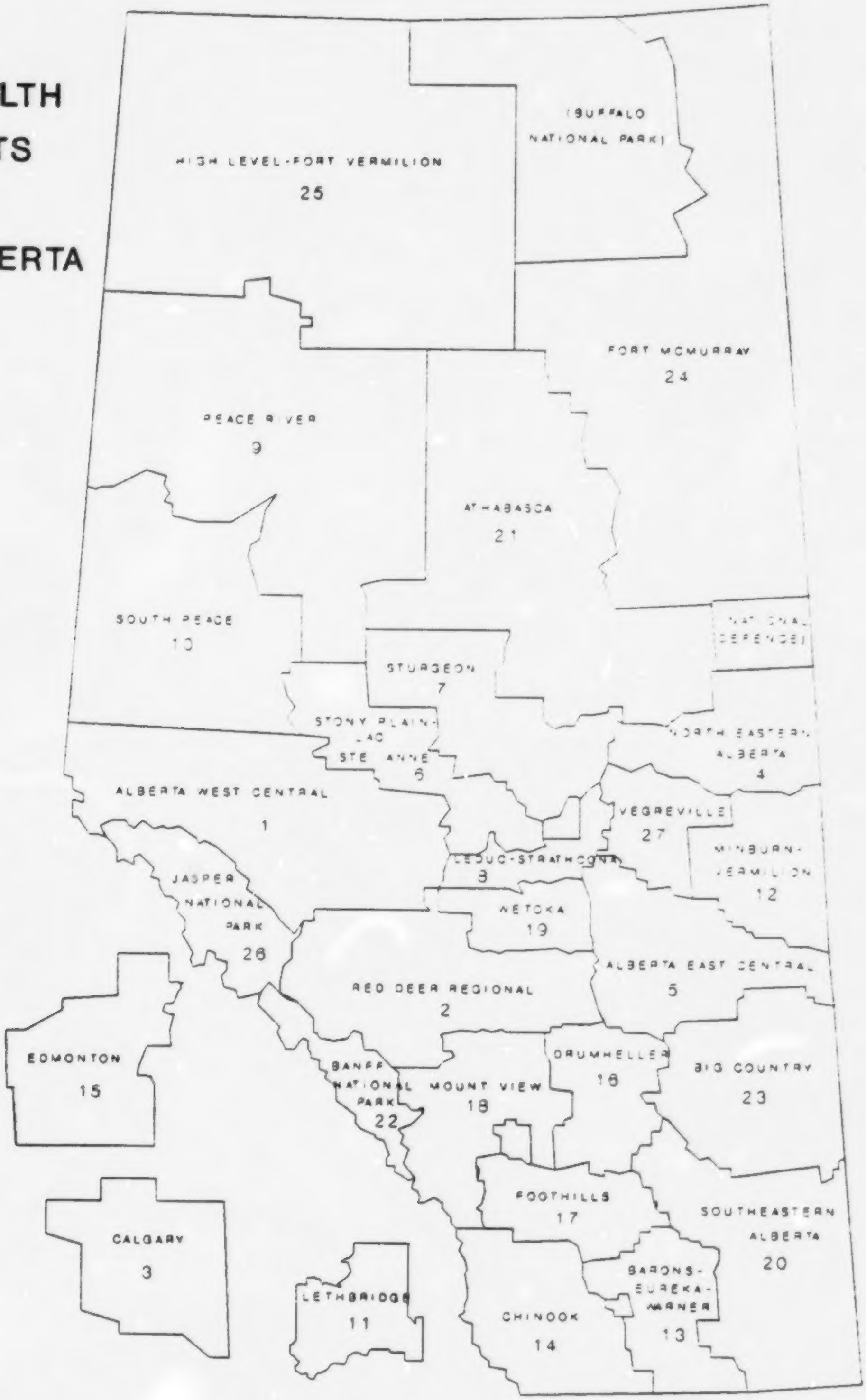
AGE-STANDARDIZED DEATH RATES (PER 100,0000 FEMALES), 1988
CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	16	2	29	5	1.14	.
ALBERTA WEST CENTRAL	33	1	65	1	2.36	.
ATHABASCA	0	0	0	21	0.00	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS EUREKA-WARNER	10	-4	25	13	0.71	.
BIG COUNTRY	0	0	0	23	0.00	.
CALGARY	20	15	25	3	1.43	YES
CHINOOK	10	-1	22	14	0.71	.
DRUMHELLER	9	-4	22	16	0.64	.
EDMONTON	10	7	14	15	0.71	.
FOOTHILLS	6	-6	17	17	0.43	.
FORT MCMURRAY	0	0	0	24	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.00	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	14	2	27	8	1.00	.
LETHBRIDGE	11	1	21	11	0.79	.
MINBURN-VERMILION	11	-2	24	12	0.79	.
MOUNT VIEW	4	-4	11	16	0.29	.
NORTH EASTERN ALBERTA	19	0	38	4	1.36	.
PEACE RIVER	12	-5	28	9	0.86	.
RED DEER REGIONAL	29	15	43	2	2.07	YES
SOUTHEASTERN ALBERTA	2	-2	6	20	0.14	.
SOUTH PEACE	12	-2	25	10	0.86	.
STONY PLAIN-LAC STE. ANNE	16	0	32	6	1.14	.
STURGEON	16	3	26	7	1.14	.
VEGREVILLE	0	0	0	27	0.00	.
WETOKA	4	-4	12	19	0.29	.
ALBERTA	**14**	**12**	**16**			

NUMBER OF FEMALE DEATHS, 1988
LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	1	1
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	1	0	0	0	1
CALGARY	0	0	0	0	0	2	3	3	3	2	13
CHINOOK	0	0	0	0	0	1	0	0	0	0	1
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	0	5	2	5	3	15
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	1	0	0	1
LETHBRIDGE	0	0	0	0	0	0	0	0	1	0	1
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	1	1	0	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	0	1
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	1	1	0	2
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	0	1	0	1	3
SOUTH PEACE	0	0	0	0	0	0	1	0	0	1	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	1	0	0	2
STURGEON	0	0	0	0	0	0	1	0	0	0	1
VEGREVILLE	0	0	0	0	0	0	0	1	0	0	1
WETOKA	0	0	0	0	0	0	0	0	0	0	0
ALBERTA	0	0	0	0	0	4	12	11	12	8	47

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL-FORT VERMILION 25
FORT MCMURRAY 24
PEACE RIVER 9
ATHABASCA 21
SOUTH PEACE 10
NATIONAL DEFENCE)
STURGEON 7
STONY PLAIN-LAC STE. ANNE 6
NORTH EASTERN ALBERTA 4
ALBERTA WEST CENTRAL 1
VEGREVILLE 27
LEDUC-STRATHCONA 8
MINBURN-VERMILION 12
JASPER NATIONAL PARK 26
WETOKA 19
ALBERTA EAST CENTRAL 5
RED DEER REGIONAL 2
EDMONTON 15
DRUMHELLER 16
BIG COUNTRY 23
BANFF NATIONAL PARK 22
MOUNT VIEW 18
CALGARY 3
FOOTHILLS 17
SOUTHEASTERN ALBERTA 20
BARONS-EUREKA-WARNER 13
LETHBRIDGE 11
CHINOOK 14

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	210
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	198	0	0	0
CALGARY	0	0	0	0	0	4	10	13	18	16
CHINOOK	0	0	0	0	0	41	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	0	18	8	29	23
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	36	0	0
LETHBRIDGE	0	0	0	0	0	0	0	0	38	0
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	50	63	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	89	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	24	29	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	20	0	31	0	51
SOUTH PEACE	0	0	0	0	0	0	40	0	0	95
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	37	54	0	0
STURGEON	0	0	0	0	0	0	23	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	69	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0
ALBERTA	**0**	**0**	**0**	**0**	**0**	**2**	**11**	**13**	**18**	**16**

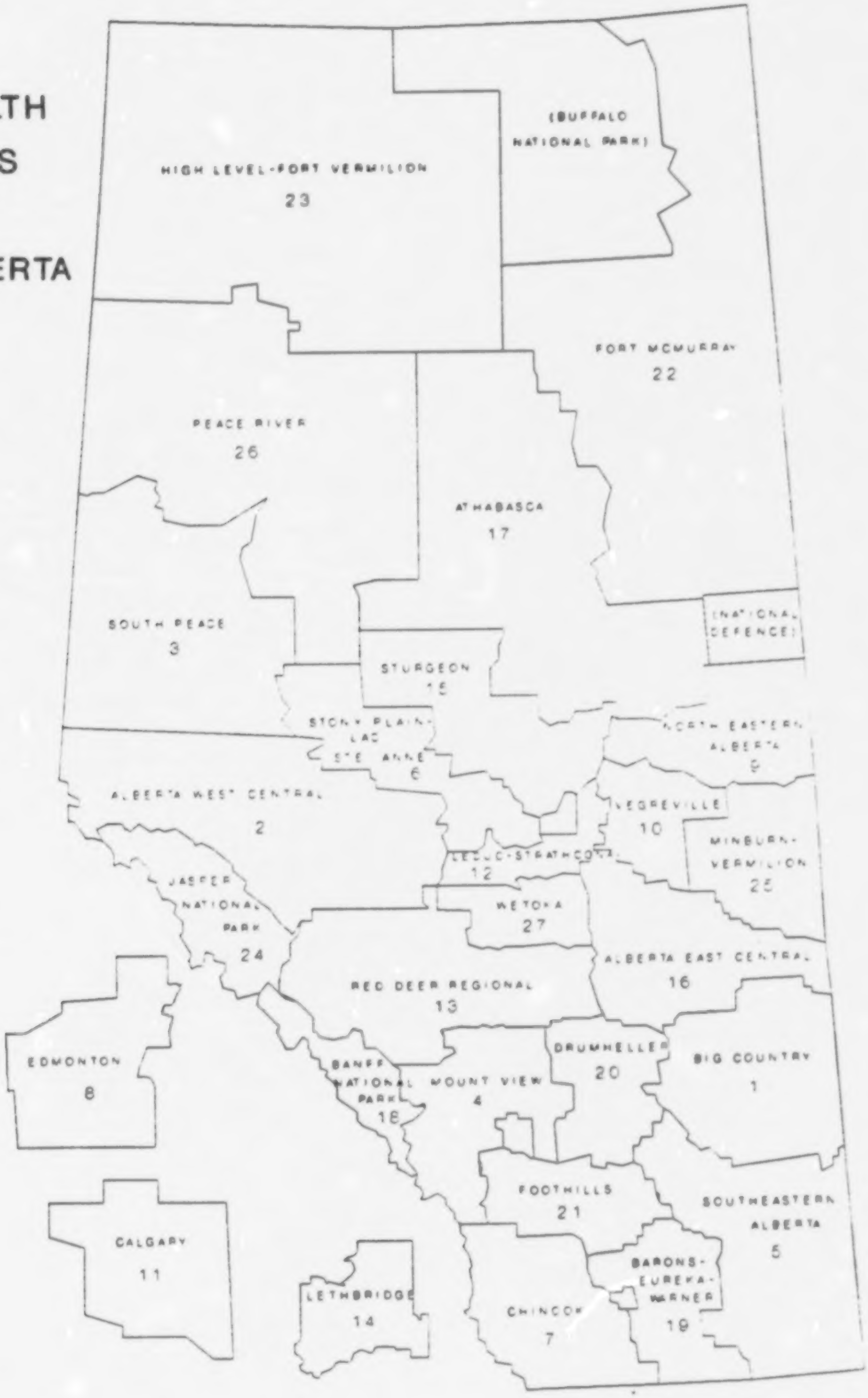
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	16	0.00	.
ALBERTA WEST CENTRAL	9	-8	26	2	2.25	.
ATHABASCA	0	0	0	17	0.00	.
BANFF NATIONAL PARK	0	0	0	18	0.00	.
BARONS EUREKA-WARNER	0	0	0	19	0.00	.
BIG COUNTRY	18	-17	53	1	4.50	.
CALGARY	4	2	6	11	1.00	.
CHINOOK	6	-6	18	7	1.50	.
DRUMHELLER	0	0	0	20	0.00	.
EDMONTON	5	2	7	8	1.25	.
FOOTHILLS	0	0	0	21	0.00	.
FORT MCMURRAY	0	0	0	22	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	23	0.00	.
JASPER NATIONAL PARK	0	0	0	24	0.00	.
LEDUC-STRATHCONA	3	-3	8	12	0.75	.
LETHBRIDGE	2	-2	6	14	0.50	.
MINBURN-VERMILION	0	0	0	25	0.00	.
MOUNT VIEW	7	-3	17	4	1.75	.
NORTH EASTERN ALBERTA	5	-5	15	9	1.25	.
PEACE RIVER	0	0	0	26	0.00	.
RED DEER REGIONAL	3	-1	8	13	0.75	.
SOUTHEASTERN ALBERTA	7	-1	16	5	1.75	.
SOUTH PEACE	8	-3	18	3	2.00	.
STONY PLAIN-LAC STE. ANNE	7	-3	18	6	1.75	.
STURGEON	2	-2	6	15	0.50	.
VEGREVILLE	5	-5	15	10	1.25	.
WETOKA	0	0	0	27	0.00	.
ALBERTA	**4**	**3**	**5**			

4.42

LIVER CIRRHOSIS, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
23
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
22
PEACE RIVER
26
ATHABASCA
17
SOUTH PEACE
3
(NATIONAL DEFENCE)
STURGEON
15
STONY PLAIN-LAC STE. ANNE
6
NORTH EASTERN ALBERTA
9
ALBERTA WEST CENTRAL
2
VEGREVILLE
10
MINBURN-VERMILION
25
LEDUC-STRATHCONA
12
JASPER NATIONAL PARK
24
WETOKA
27
ALBERTA EAST CENTRAL
16
RED DEER REGIONAL
13
EDMONTON
8
DRUMHELLER
20
BIG COUNTRY
1
BANFF NATIONAL PARK
18
MOUNT VIEW
4
FOOTHILLS
21
SOUTHEASTERN ALBERTA
5
CALGARY
11
BARONS-EUREKA-WARNER
19
LETHBRIDGE
14
CHINOOK
7

NUMBER OF FEMALE DEATHS, 1988
CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	0	0	1
ATHABASCA	1	0	0	0	0	0	0	0	0	0	1
BANFF NATIONAL PARK	1	0	0	0	0	0	0	0	0	0	1
BARONS EUREKA-WARNER	1	0	0	0	0	0	0	0	0	0	1
BIG COUNTRY	1	0	0	0	0	0	0	0	0	0	1
CALGARY	6	1	0	1	1	1	1	2	0	0	13
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	16	1	1	1	0	1	0	0	0	0	20
FOOTHILLS	1	0	0	0	0	0	0	0	0	0	1
FORT MCMURRAY	1	0	0	0	0	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	2	0	0	0	0	0	0	0	0	0	2
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	3	0	0	0	0	0	0	0	0	0	3
LETHBRIDGE	0	0	0	0	0	0	0	0	1	0	1
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	1	0	0	0	0	0	0	0	0	1
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	1	0	0	0	0	0	0	0	0	0	1
SOUTHEASTERN ALBERTA	1	0	0	1	0	0	0	0	0	0	2
SOUTH PEACE	2	0	0	0	0	0	0	0	0	0	2
STONY PLAIN-LAC STE. ANNE	5	0	0	0	0	0	0	0	0	0	5
STURGEON	2	0	0	0	0	0	0	1	0	0	3
VEGREVILLE	1	0	0	0	0	0	0	0	0	0	1
WETOKA	1	0	0	0	0	0	0	0	0	0	1
ALBERTA	46	3	1	3	1	2	1	4	1	1	63

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
CONGENITAL ANOMALY

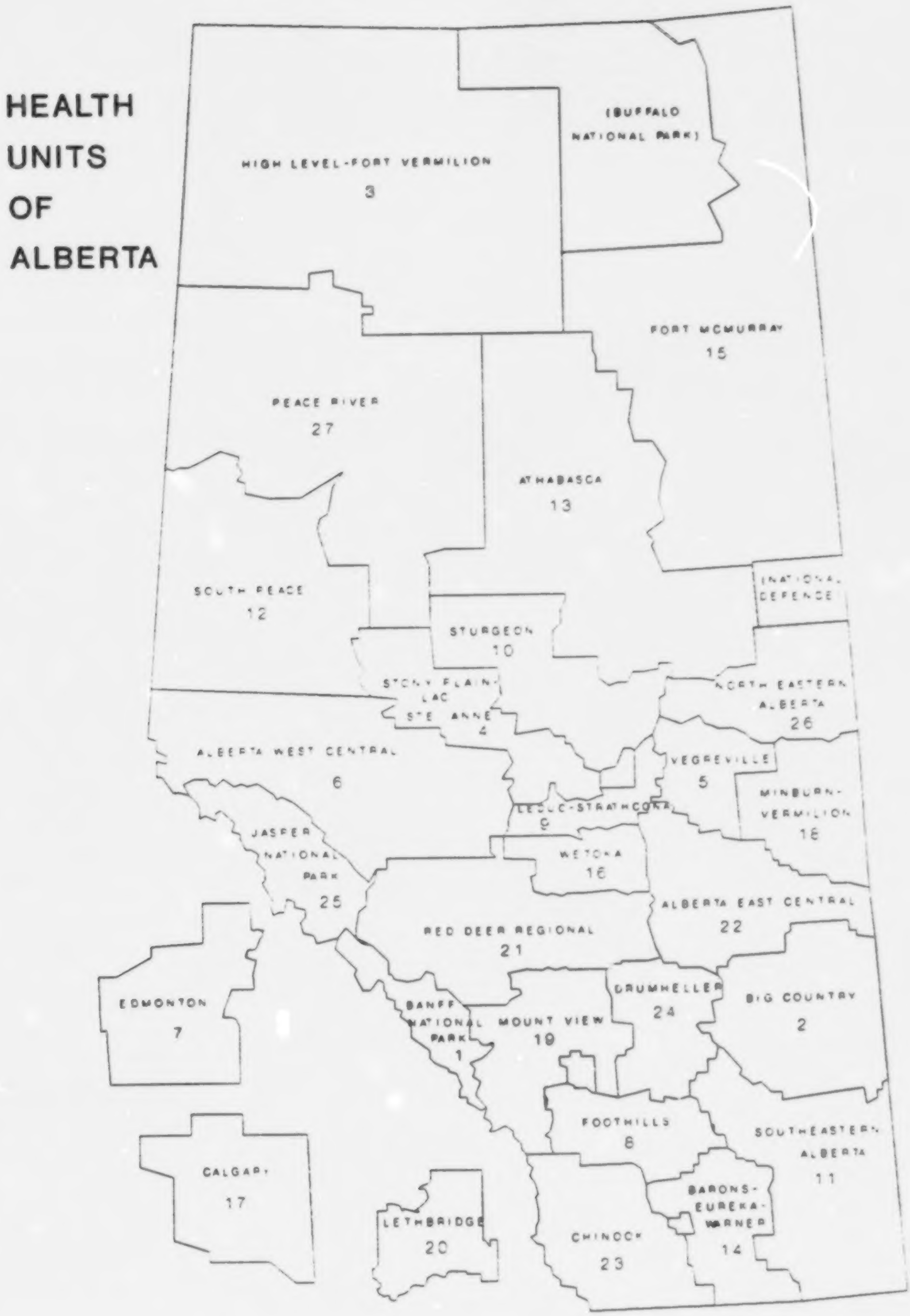
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	97	0	0
ATHABASCA	299	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	1786	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	304	0	0	0	0	0	0	0	0	0
BIG COUNTRY	1220	0	0	0	0	0	0	0	0	0
CALGARY	119	5	0	2	1	2	3	8	0	0
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	343	6	3	2	0	3	0	0	0	0
FOOTHILLS	422	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	285	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	990	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	410	0	0	0	0	0	0	0	0	0
LETHBRIDGE	0	0	0	0	0	0	0	0	38	0
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	88
MOUNT VIEW	0	46	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	97	0	0	0	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	180	0	0	17	0	0	0	0	0	0
SOUTH PEACE	342	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	931	0	0	0	0	0	0	0	0	0
STURGEON	273	0	0	0	0	0	0	35	0	0
VEGREVILLE	621	0	0	0	0	0	0	0	0	0
WETOKA	336	0	0	0	0	0	0	0	0	0
ALBERTA	239	4	1	2	0	1	1	5	1	2

AGE-STANDARDIZED DEATH RATES (PER 100,0000 FEMALES), 1988
CONGENITAL ANOMALY

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	22	0.0	.
ALBERTA WEST CENTRAL	7	-7	21	6	1.4	.
ATHABASCA	5	-5	14	13	1.0	.
BANFF NATIONAL PARK	29	-28	86	1	5.8	.
BARONS EUREKA-WARNER	5	-5	15	14	1.0	.
BIG COUNTRY	20	-19	58	2	4.0	.
CALGARY	4	2	6	17	0.8	.
CHINOOK	0	0	0	23	0.0	.
DRUMHELLER	0	0	0	24	0.0	.
EDMONTON	7	4	10	7	1.4	.
FOOTHILLS	7	-7	20	8	1.4	.
FORT MCMURRAY	5	-4	14	15	1.0	.
HIGH LEVEL-FORT VERMILION	16	-6	38	3	3.2	.
JASPER NATIONAL PARK	0	0	0	25	0.0	.
LEDUC-STRATHCONA	7	-1	14	9	1.4	.
LETHBRIDGE	2	-2	6	20	0.4	.
MINBURN-VERMILION	4	-4	11	18	0.8	.
MOUNT VIEW	3	-3	9	19	0.6	.
NORTH EASTERN ALBERTA	0	0	0	26	0.0	.
PEACE RIVER	0	0	0	27	0.0	.
RED DEER REGIONAL	2	-2	5	21	0.4	.
SOUTHEASTERN ALBERTA	6	-2	14	11	1.2	.
SOUTH PEACE	6	-2	13	12	1.2	.
STONY PLAIN-LAC STE. ANNE	15	2	28	4	3.0	.
STURGEON	7	-1	15	10	1.4	.
VEGREVILLE	10	-10	30	5	2.0	.
WETOKA	5	-5	16	16	1.0	.
ALBERTA	**5**	**4**	**7**			

4.46

CONGENITAL ANOMALY, FEMALES, 1988


HEALTH UNITS OF ALBERTA
HIGH LEVEL-FORT VERMILION 3
(BUFFALO NATIONAL PARK)
FORT MCMURRAY 15
PEACE RIVER 27
ATHABASCA 13
SOUTH PEACE 12
NATIONAL DEFENCE
STURGEON 10
STONY PLAIN-LAC STE. ANNE 4
NORTH EASTERN ALBERTA 26
ALBERTA WEST CENTRAL 6
VEGREVILLE 5
MINBURN-VERMILION 18
LEDUC-STRATHCONA 9
JASPER NATIONAL PARK 25
WETOKA 16
ALBERTA EAST CENTRAL 22
RED DEER REGIONAL 21
EDMONTON 7
DRUMHELLER 24
BIG COUNTRY 2
BANFF NATIONAL PARK 1
MOUNT VIEW 19
FOOTHILLS 8
SOUTHEASTERN ALBERTA 11
CALGARY 17
BARONS-EUREKA-WARNER 14
LETHBRIDGE 20
CHINOOK 23

NUMBER OF FEMALE DEATHS, 1988
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	0	1	0	0	0	2
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	0	0	0	1
ATHABASCA	0	0	0	2	0	0	0	0	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	1	0	0	0	2	0	0	0	3
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	1	0	9	1	3	1	2	3	3	23
CHINOOK	0	0	0	0	1	0	0	0	0	0	1
DRUMHELLER	0	1	0	1	0	0	0	0	0	0	2
EDMONTON	0	0	2	3	2	1	1	1	3	2	15
FOOTHILLS	0	0	0	0	1	0	0	0	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	1	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	2	3	2	1	0	0	1	0	9
LETHBRIDGE	0	1	0	2	0	0	0	1	1	0	5
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	1	0	2	0	0	0	0	3
NORTH EASTERN ALBERTA	0	0	1	0	0	1	0	1	2	0	5
PEACE RIVER	0	0	0	1	0	0	0	0	0	0	1
RED DEER REGIONAL	0	0	0	0	1	1	0	0	2	1	5
SOUTHEASTERN ALBERTA	0	0	0	2	0	0	0	0	0	0	2
SOUTH PEACE	0	0	0	0	1	0	1	0	0	2	4
STONY PLAIN-LAC STE. ANNE	0	0	2	0	0	1	2	0	0	0	5
STURGEON	0	0	0	3	0	1	0	0	3	0	7
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	2	1	0	0	3
ALBERTA	**0**	**3**	**8**	**28**	**9**	**12**	**11**	**6**	**15**	**8**	**100**

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	27	0	0	41	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	39	0	0	0	0
ATHABASCA	0	0	0	79	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	28	0	0	0	117	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	5	0	17	1	6	3	8	18	25
CHINOOK	0	0	0	0	34	0	0	0	0	0
DRUMHELLER	0	84	0	42	0	0	0	0	0	0
EDMONTON	0	0	6	6	3	3	4	4	17	15
FOOTHILLS	0	0	0	0	37	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	97	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	20	40	22	10	0	0	54	0
LETHBRIDGE	0	59	0	42	0	0	0	36	38	0
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	26	0	42	0	0	0	0
NORTH EASTERN ALBERTA	0	0	24	0	0	35	0	71	177	0
PEACE RIVER	0	0	0	34	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	9	12	0	0	58	43
SOUTHEASTERN ALBERTA	0	0	0	35	0	0	0	0	0	0
SOUTH PEACE	0	0	0	0	16	0	40	0	0	190
STONY PLAIN-LAC STE. ANNE	0	0	32	0	0	19	74	0	0	0
STURGEON	0	0	0	45	0	13	0	0	153	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	111	59	0	0
ALBERTA	**0**	**4**	**4**	**15**	**4**	**7**	**10**	**7**	**22**	**16**

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	8	-3	19	14	1.00	.
ALBERTA WEST CENTRAL	6	-5	17	18	0.75	.
ATHABASCA	13	-5	30	9	1.63	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS EUREKA-WARNER	15	-2	31	5	1.88	.
BIG COUNTRY	0	0	0	23	0.00	.
CALGARY	7	4	10	15	0.88	.
CHINOOK	7	-6	20	16	0.88	.
DRUMHELLER	12	-5	30	10	1.50	.
EDMONTON	5	2	8	20	0.63	.
FOOTHILLS	7	-7	22	17	0.88	.
FORT MCMURRAY	9	-8	26	12	1.13	.
HIGH LEVEL-FORT VERMILION	0	0	0	24	0.00	.
JASPER NATIONAL PARK	0	0	0	25	0.00	.
LEDUC-STRATHCONA	19	6	31	2	2.38	.
LETHBRIDGE	16	2	29	4	2.00	.
MINBURN-VERMILION	0	0	0	26	0.00	.
MOUNT VIEW	10	-1	22	11	1.25	.
NORTH EASTERN ALBERTA	24	3	45	1	3.00	.
PEACE RIVER	5	-5	16	21	0.63	.
RED DEER REGIONAL	9	1	16	13	1.13	.
SOUTHEASTERN ALBERTA	6	-2	13	19	0.75	.
SOUTH PEACE	15	0	29	6	1.88	.
STONY PLAIN-LAC STE. ANNE	14	2	27	7	1.75	.
STURGEON	18	4	31	3	2.25	.
VEGREVILLE	0	0	0	27	0.00	.
WETOKA	14	-2	31	8	1.75	.
ALBERTA	**8**	**7**	**10**			

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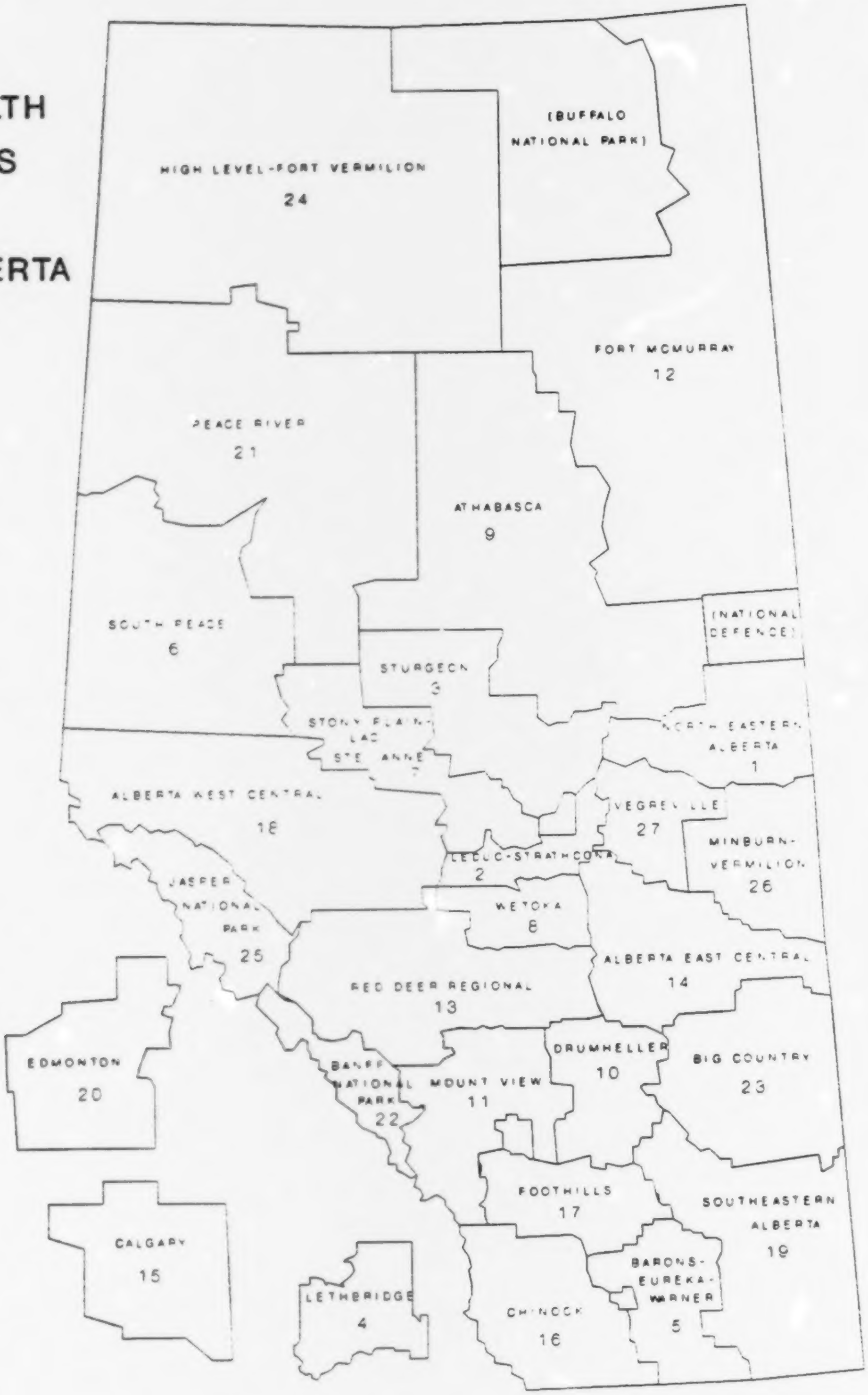
MOTOR VEHICLE ACCIDENTS, FEMALES. 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
24
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
12
PEACE RIVER
21
ATHABASCA
9
SOUTH PEACE
6
(NATIONAL DEFENCE)
STURGEON
3
STONY PLAIN-LAC STE. ANNE
7
NORTH EASTERN ALBERTA
1
ALBERTA WEST CENTRAL
18
VEGREVILLE
27
MINBURN-VERMILION
26
LEDUC-STRATHCONA
2
JASPER NATIONAL PARK
25
WETOKA
8
ALBERTA EAST CENTRAL
14
RED DEER REGIONAL
13
EDMONTON
20
DRUMHELLER
10
BIG COUNTRY
23
BANFF NATIONAL PARK
22
MOUNT VIEW
11
FOOTHILLS
17
SOUTHEASTERN ALBERTA
19
CALGARY
15
BARONS-EUREKA-WARNER
5
LETHBRIDGE
4
CHINOOK
16

NUMBER OF FEMALE DEATHS, 1988
SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	1	0	0	0	0	0	1
ALBERTA WEST CENTRAL	0	0	0	1	1	1	0	0	0	0	3
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	1	4	4	10	7	2	2	2	32
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	3	10	8	5	1	3	1	31
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	1	0	0	0	0	0	1
LEDUC-STRATHCONA	0	0	0	0	1	1	0	0	0	0	2
LETHBRIDGE	0	0	0	0	1	0	1	3	0	0	5
MINBURN-VERMILION	0	0	0	0	1	1	0	0	0	0	2
MOUNT VIEW	0	0	0	1	0	0	2	0	0	0	3
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	1	2
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	1	1	0	1	0	0	3
SOUTHEASTERN ALBERTA	0	0	0	1	0	0	0	0	0	0	1
SOUTH PEACE	0	0	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	1	0	0	0	0	1
STURGEON	0	0	0	1	0	2	0	0	0	0	3
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	1	0	0	0	1	2
ALBERTA	0	0	1	11	21	26	15	7	6	5	92

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AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	25	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	33	27	39	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	2	8	6	20	23	8	12	16
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	6	16	21	18	4	17	8
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	227	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	11	10	0	0	0	0
LETHBRIDGE	0	0	0	0	18	0	36	107	0	0
MINBURN-VERMILION	0	0	0	0	30	41	0	0	0	0
MOUNT VIEW	0	0	0	26	0	0	73	0	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	89	113
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	9	12	0	24	0	0
SOUTHEASTERN ALBERTA	0	0	0	17	0	0	0	0	0	0
SOUTH PEACE	0	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	19	0	0	0	0
STURGEON	0	0	0	15	0	25	0	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	42	0	0	0	96
ALBERTA	0	0	1	6	9	15	14	8	9	10

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AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
SUICIDE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	5	-5	15	11	0.63	.
ALBERTA WEST CENTRAL	16	-2	35	2	2.00	.
ATHABASCA	0	0	0	16	0.00	.
BANFF NATIONAL PARK	0	0	0	17	0.00	.
BARONS EUREKA-WARNER	0	0	0	18	0.00	.
BIG COUNTRY	0	0	0	19	0.00	.
CALGARY	10	6	13	6	1.25	.
CHINOOK	0	0	0	20	0.00	.
DRUMHELLER	0	0	0	21	0.00	.
EDMONTON	10	7	14	7	1.25	.
FOOTHILLS	0	0	0	22	0.00	.
FORT MCMURRAY	0	0	0	23	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	24	0.00	.
JASPER NATIONAL PARK	46	-44	135	1	5.75	.
LEDUC-STRATHCONA	4	-2	9	13	0.50	.
LETHBRIDGE	15	2	28	3	1.88	.
MINBURN-VERMILION	12	-5	28	4	1.50	.
MOUNT VIEW	11	-1	23	5	1.38	.
NORTH EASTERN ALBERTA	10	-4	23	8	1.25	.
PEACE RIVER	0	0	0	25	0.00	.
RED DEER REGIONAL	5	-1	11	12	0.63	.
SOUTHEASTERN ALBERTA	3	-3	8	14	0.38	.
SOUTH PEACE	0	0	0	26	0.00	.
STONY PLAIN-LAC STE. ANNE	3	-3	8	15	0.38	.
STURGEON	6	-1	13	10	0.75	.
VEGREVILLE	0	0	0	27	0.00	.
WETOKA	10	-4	24	9	1.25	.
ALBERTA	**8**	**6**	**9**			

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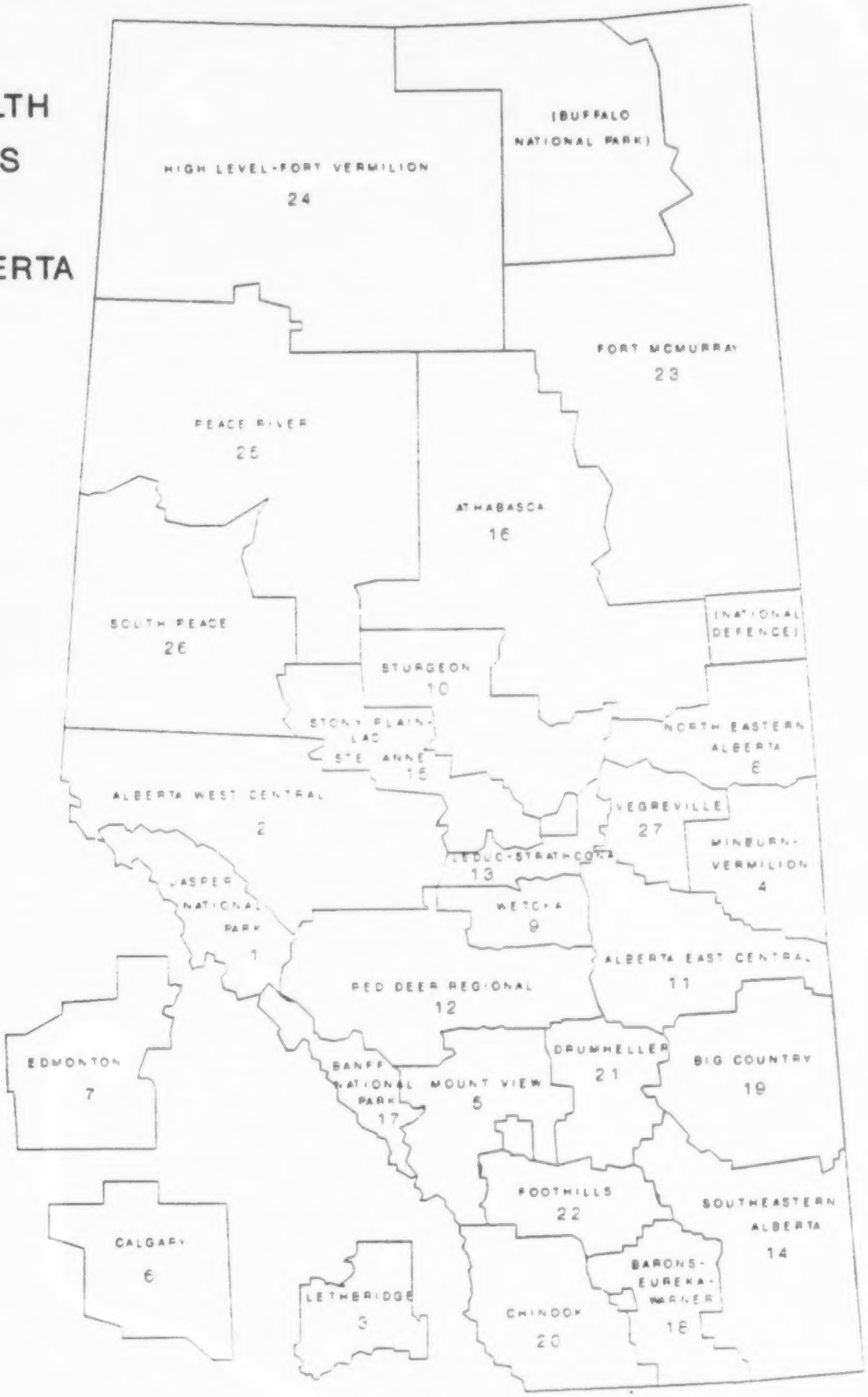
SUICIDE, FEMALES, 1988

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
24
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
23
PEACE RIVER
25
ATHABASCA
16
SOUTH PEACE
26
(NATIONAL DEFENCE)
STURGEON
10
STONY PLAIN-LAC STE. ANNE
15
NORTH EASTERN ALBERTA
8
ALBERTA WEST CENTRAL
2
VEGREVILLE
27
MINBURN-VERMILION
4
LEDUC-STRATHCONA
13
JASPER NATIONAL PARK
1
WETOKA
9
ALBERTA EAST CENTRAL
11
RED DEER REGIONAL
12
EDMONTON
7
BANFF NATIONAL PARK
17
MOUNT VIEW
5
DRUMHELLER
21
BIG COUNTRY
19
FOOTHILLS
22
SOUTHEASTERN ALBERTA
14
CALGARY
6
LETHBRIDGE
3
BARONS-EUREKA-WARNER
18
CHINOOK
20

NUMBER OF FEMALE DEATHS, 1988
BREAST CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	3	3	3	9
ALBERTA WEST CENTRAL	0	0	0	0	1	0	0	0	2	2	5
ATHABASCA	0	0	0	0	0	0	0	1	1	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	1	0	2	1	4
BIG COUNTRY	0	0	0	0	1	0	1	0	2	0	4
CALGARY	0	0	0	0	3	13	24	25	23	23	111
CHINOOK	0	0	0	0	1	0	2	0	3	1	7
DRUMHELLER	0	0	0	0	0	1	0	5	3	1	10
EDMONTON	0	0	0	0	2	7	10	19	23	17	78
FOOTHILLS	0	0	0	0	0	0	0	1	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	1	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	2	4	3	2	11
LETHBRIDGE	0	0	0	0	0	1	1	3	3	5	13
MINBURN-VERMILION	0	0	0	0	0	0	2	1	2	2	7
MOUNT VIEW	0	0	0	0	0	1	1	3	1	2	8
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	0	1
PEACE RIVER	0	0	0	0	0	3	0	1	0	2	6
RED DEER REGIONAL	0	0	0	0	0	2	2	5	4	5	18
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	3	1	3	3	10
SOUTH PEACE	0	0	0	0	0	0	0	2	3	2	7
STONY PLAIN-LAC STE. ANNE	0	0	0	0	1	0	0	4	0	3	8
STURGEON	0	0	0	0	0	1	3	1	2	6	13
VEGREVILLE	0	0	0	0	0	0	0	0	2	1	3
WETOKA	0	0	0	0	0	0	1	0	0	1	2
ALBERTA	**0**	**0**	**0**	**0**	**9**	**29**	**53**	**80**	**86**	**82**	**339**

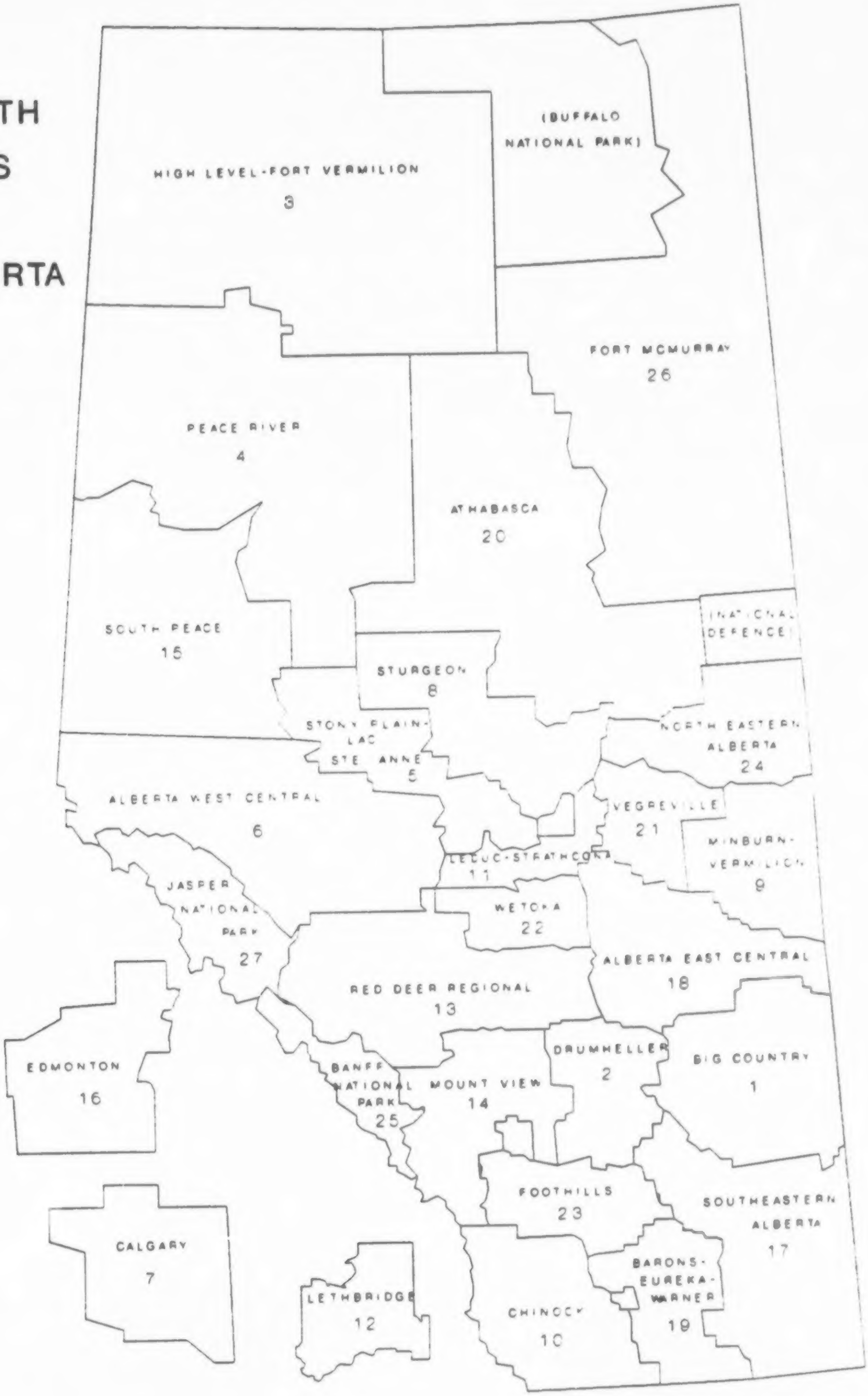
AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1988
BREAST CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	119	116	153
ALBERTA WEST CENTRAL	0	0	0	0	27	0	0	0	276	419
ATHABASCA	0	0	0	0	0	0	0	102	134	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS EUREKA-WARNER	0	0	0	0	0	0	58	0	163	105
BIG COUNTRY	0	0	0	0	113	0	1	098	0	437
CALGARY	0	0	0	0	4	26	80	105	140	188
CHINOOK	0	0	0	0	34	0	116	0	183	83
DRUMHELLER	0	0	0	0	0	48	0	390	240	115
EDMONTON	0	0	0	0	3	18	37	80	131	131
FOOTHILLS	0	0	0	0	0	0	0	80	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	595	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	41	143	163	171
LETHBRIDGE	0	0	0	0	0	25	36	107	115	227
MINBURN-VERMILION	0	0	0	0	0	0	129	72	142	176
MOUNT VIEW	0	0	0	0	0	21	36	150	63	202
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	89	0
PEACE RIVER	0	0	0	0	0	129	0	84	0	341
RED DEER REGIONAL	0	0	0	0	0	25	39	119	117	214
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	93	31	104	153
SOUTH PEACE	0	0	0	0	0	0	0	105	216	190
STONY PLAIN-LAC STE. ANNE	0	0	0	0	16	0	0	217	0	482
STURGEON	0	0	0	0	0	13	69	35	102	390
VEGREVILLE	0	0	0	0	0	0	0	0	135	83
WETOKA	0	0	0	0	0	0	56	0	0	96
ALBERTA	0	0	0	0	4	17	49	91	127	166

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1988
BREAST CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	22	7	36	18	0.79	.
ALBERTA WEST CENTRAL	38	4	72	6	1.36	.
ATHABASCA	15	-6	36	20	0.54	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS EUREKA-WARNER	19	0	37	19	0.68	.
BIG COUNTRY	65	-1	132	1	2.32	.
CALGARY	35	29	42	7	1.25	YES
CHINOOK	31	7	55	10	1.11	.
DRUMHELLER	54	20	88	2	1.93	.
EDMONTON	25	20	31	16	0.89	.
FOOTHILLS	6	-6	17	23	0.21	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	44	-42	130	3	1.57	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	31	12	49	11	1.11	.
LETHBRIDGE	31	14	48	12	1.11	.
MINBURN-VERMILION	32	8	57	9	1.14	.
MOUNT VIEW	29	9	50	14	1.04	.
NORTH EASTERN ALBERTA	5	-5	15	24	0.18	.
PEACE RIVER	39	8	70	4	1.39	.
RED DEER REGIONAL	31	17	46	13	1.11	.
SOUTHEASTERN ALBERTA	23	9	37	17	0.82	.
SOUTH PEACE	28	7	48	15	1.00	.
STONY PLAIN-LAC STE. ANNE	39	11	68	5	1.39	.
STURGEON	33	15	50	8	1.18	.
VEGREVILLE	11	-1	24	21	0.39	.
WETOKA	9	-4	22	22	0.32	.
ALBERTA	**28**	**25**	**31**			

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FORT VERMILION
3
(BUFFALO NATIONAL PARK)
FORT MCMURRAY
26
PEACE RIVER
4
ATHABASCA
20
SOUTH PEACE
15
(NATIONAL DEFENCE)
STURGEON
8
STONY PLAIN-LAC STE ANNE
5
NORTH EASTERN ALBERTA
24
ALBERTA WEST CENTRAL
6
VEGREVILLE
21
MINBURN-VERMILION
9
LEDUC-STRATHCONA
11
JASPER NATIONAL PARK
27
WETOKA
22
ALBERTA EAST CENTRAL
18
RED DEER REGIONAL
13
EDMONTON
16
DRUMHELLER
2
BIG COUNTRY
1
BANFF NATIONAL PARK
25
MOUNT VIEW
14
FOOTHILLS
23
SOUTHEASTERN ALBERTA
17
CALGARY
7
BARONS-EUREKA-WARNER
19
LETHBRIDGE
12
CHINOOK
10

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES
FEMALE, 1988

REGION / HEALTH UNIT		ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		PROSTATE CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
*		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
N	ATHABASCA	761.5	100	11.0	1.4	101.0	13.3	31.0	4.1	0.5	0.1	0.0	0.0	11.0	1.4	31.0	4.1	0.0	0.0	576.0	75.6
N	FORT MCMURRAY	464.0	100	41.0	8.8	20.5	4.4	0.0	0.0	31.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	371.0	80.0
N	HIGH LEVEL-FORT VERMILION	363.0	100	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	2.9	0.0	0.0	0.0	0.0	352.0	97.0
N	PEACE RIVER	489.0	100	13.0	2.7	50.5	10.3	11.0	2.2	21.0	4.3	31.0	6.3	102.0	20.9	0.5	0.1	0.0	0.0	260.0	53.2
N	SOUTH PEACE	792.5	100	63.5	8.0	61.0	7.7	0.0	0.0	21.5	2.7	10.5	1.3	22.5	2.8	12.0	1.5	0.0	0.0	601.5	75.9
	NORTH REGION SUM:	2,870.0	100	129.0	4.5	233.0	8.1	42.0	1.5	74.5	2.6	41.5	1.4	146.0	5.1	43.5	1.5	0.0	0.0	2,160.5	75.3
NC	ALBERTA WEST CENTRAL	565.0	100	23.5	4.2	30.5	5.4	0.5	0.1	61.5	10.9	1.0	0.2	41.5	7.3	30.5	5.4	121.5	21.5	254.5	45.0
NC	JASPER NATIONAL PARK	71.0	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	57.0	30.5	43.0
NC	LEDUC-STRATHCONA	1,786.0	100	116.5	6.5	384.5	21.5	63.5	3.6	83.5	4.7	22.5	1.3	84.5	4.7	11.5	0.6	71.0	4.0	948.5	53.1
NC	MINBURN-VERMILION	369.0	100	2.0	0.5	0.0	0.0	11.5	3.1	20.5	5.6	0.5	0.1	52.5	14.2	0.0	0.0	71.0	19.2	211.0	57.2
NC	NORTH EASTERN ALBERTA	529.0	100	64.5	12.2	102.5	19.4	11.5	2.2	1.0	0.2	20.5	3.9	0.5	0.1	10.5	2.0	0.5	0.1	317.5	60.0
NC	STONY PLAIN-LAC STE. ANNE	1,351.0	100	34.0	2.5	192.5	14.2	10.5	0.8	22.5	1.7	42.0	3.1	82.5	6.1	0.0	0.0	30.5	2.3	936.5	69.3
NC	STURGEON	1,414.0	100	57.0	4.0	183.5	13.0	21.0	1.5	20.5	1.4	42.0	3.0	103.5	7.3	21.5	1.5	111.5	7.9	853.5	60.4
NC	VEGREVILLE	161.0	100	34.0	21.1	0.0	0.0	1.5	0.9	10.5	6.5	0.0	0.0	1.0	0.6	0.0	0.0	0.0	0.0	114.0	70.8
	NORTH CENTRAL REGION SUM:	6,246.0	100	331.5	5.3	893.5	14.3	120.0	1.9	220.0	3.5	128.5	2.1	366.0	5.9	74.0	1.2	446.5	7.1	3,666.0	58.7
EDMONTON		10,940.5	100	274.0	2.5	416.5	3.8	273.0	2.5	325.5	3.0	97.0	0.9	710.5	6.5	190.5	1.7	915.0	8.4	7,738.5	70.7
CALGARY		10,617.5	100	412.5	3.9	697.0	6.6	258.5	2.4	344.5	3.2	102.5	1.0	1,284.0	12.1	210.0	2.0	895.0	8.4	6,413.5	60.4
SC	ALBERTA EAST CENTRAL	512.0	100	48.0	9.4	71.0	13.9	10.5	2.1	64.5	12.6	41.5	8.1	33.0	6.4	0.0	0.0	40.5	7.9	203.0	39.6
SC	BANFF NATIONAL PARK	121.5	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	121.0	99.6
SC	BIG COUNTRY	185.5	100	11.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.0	33.4	0.5	0.3	0.0	0.0	112.0	60.4
SC	DRUMHELLER	609.0	100	3.0	0.5	118.0	19.4	32.0	5.3	0.0	0.0	1.0	0.2	84.5	13.9	32.0	5.3	0.0	0.0	338.5	55.6
SC	MOUNT VIEW	1,000.5	100	14.0	1.4	111.5	11.1	72.5	7.2	12.0	1.2	10.5	1.0	83.0	8.3	0.5	0.0	91.5	9.1	605.0	60.5
SC	RED DEER REGIONAL	1,598.0	100	98.5	6.2	72.0	4.5	82.0	5.1	146.0	9.1	14.0	0.9	156.5	9.8	22.0	1.4	81.5	5.1	925.5	57.9
SC	WETOKA	689.0	100	12.5	1.8	51.5	7.5	10.5	1.5	0.0	0.0	0.5	0.1	20.5	3.0	10.5	1.5	30.5	4.4	552.5	80.2
	SOUTH CENTRAL REGION SUM:	4,715.5	100	187.0	4.0	424.0	9.0	207.5	4.4	222.5	4.7	67.5	1.4	439.5	9.3	66.0	1.4	244.0	5.2	2,857.5	60.6
S	BARONS-EUREKA-WARNER	639.0	100	23.0	3.6	101.5	15.9	1.5	0.2	11.0	1.7	31.0	4.9	21.5	3.4	51.5	8.1	0.0	0.0	398.0	62.3
S	CHINOOK	674.0	100	45.5	6.8	40.5	6.0	0.0	0.0	22.5	3.3	0.5	0.1	83.0	12.3	0.0	0.0	0.0	0.0	482.0	71.5
S	FOOTHILLS	312.5	100	1.5	0.5	40.5	13.0	1.0	0.3	11.5	3.7	10.5	3.4	10.5	3.4	10.5	3.4	0.0	0.0	226.5	72.5
S	LETHBRIDGE	1,013.5	100	44.5	4.4	179.5	17.7	22.0	2.2	63.0	6.2	12.0	1.2	84.0	8.3	20.5	2.0	92.5	9.1	495.5	48.9
S	SOUTH EASTERN ALBERTA	1,058.5	100	56.5	5.3	101.0	9.5	12.5	1.2	63.5	6.0	0.0	0.0	73.5	6.9	41.5	3.9	50.5	4.8	659.5	62.3
	SOUTH REGION SUM:	3,697.5	100	171.0	4.6	463.0	12.5	37.0	1.0	171.5	4.6	54.0	1.5	272.5	7.4	124.0	3.4	143.0	3.9	2,261.5	61.2
	HEALTH UNIT TOTAL	39,087.0	100	1,505.0	3.9	3,127.0	8.0	938.0	2.4	1,358.5	3.5	491.0	1.3	3,218.5	8.2	708.0	1.8	2,643.5	6.8	25,097.5	64.2

* N = NORTH, NC = NORTH CENTRAL, SC = SOUTH CENTRAL, and S = SOUTH

CHART 4.60

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION, FEMALE, 1988

Percentage Distribution by Selected Preventable Causes

North, North Central, Edmonton, Calgary, South Central, South

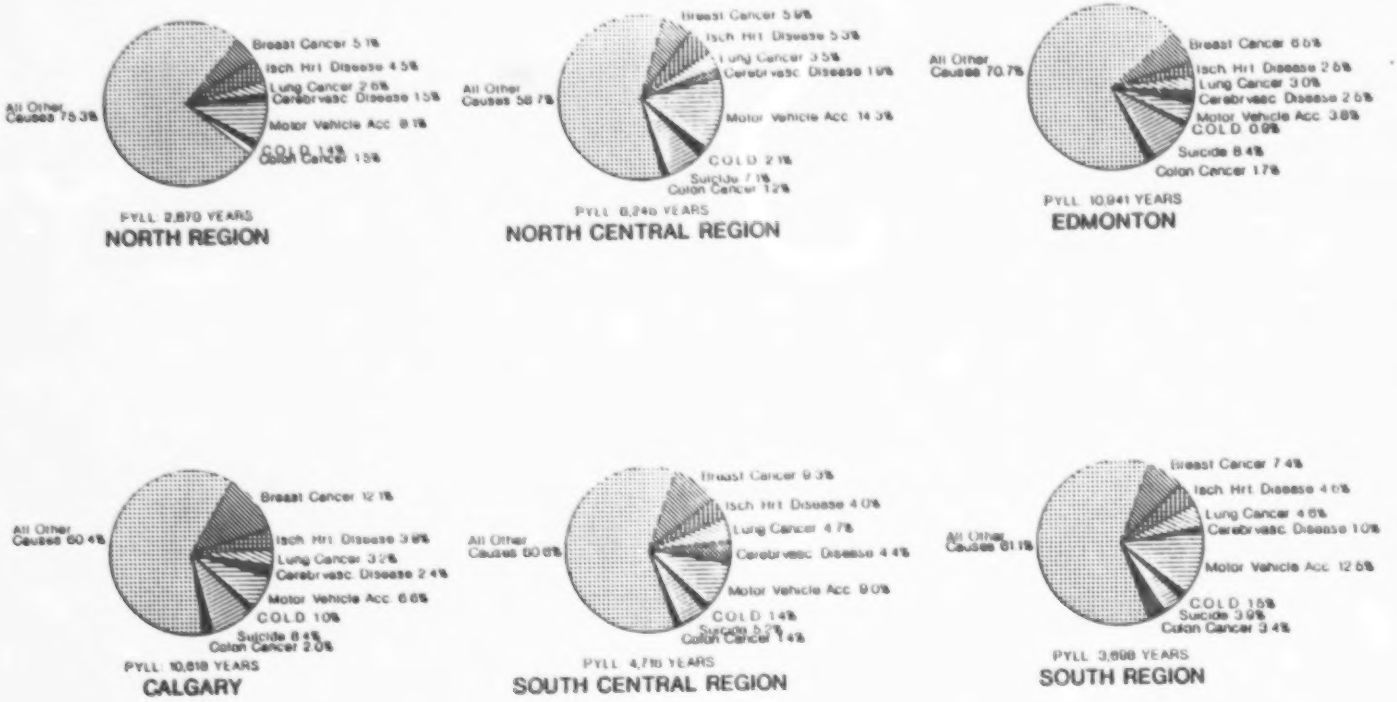
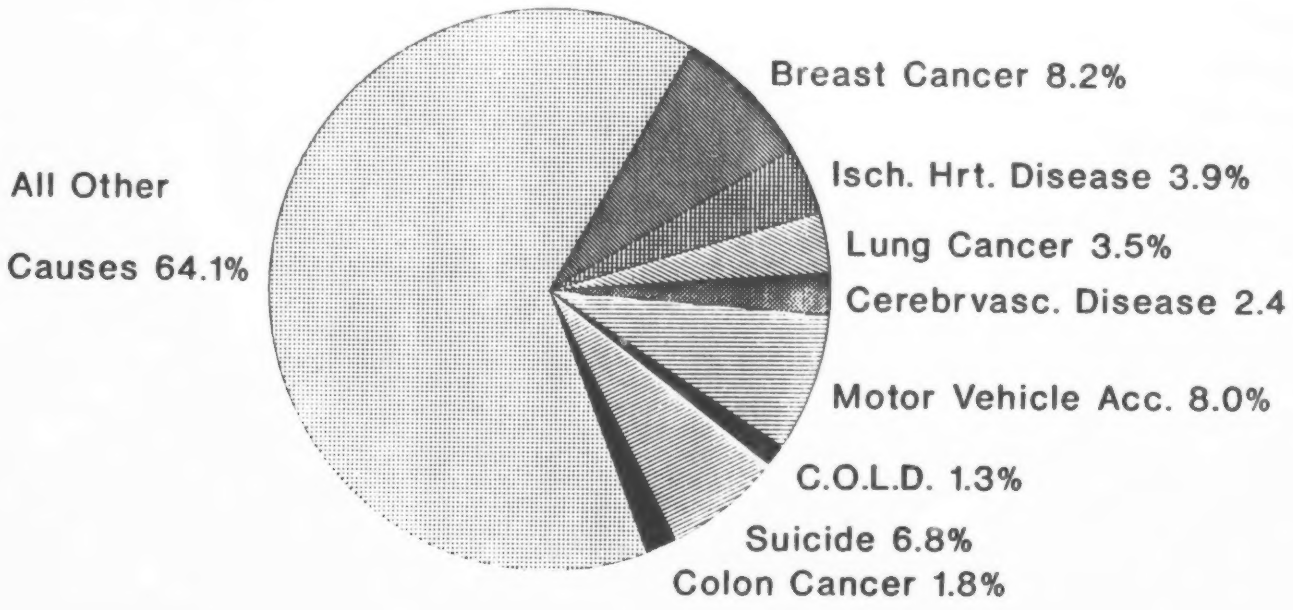


CHART 4.61

POTENTIAL YEARS OF LIFE LOST (PYLL): FEMALE, 1988

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL: 39,087 YEARS

APPENDICES

APPENDIX A

METHOD OF POPULATION PROJECTION

In this appendix the method of health unit population projection used in the report is described. The statistics needed consist of: the 1986 health unit census (Federal) enumeration and the 1988 age and sex distributions of Alberta population published by the Alberta Bureau of Statistics. It should be noted that the 1986 census exclude one or more incompletely enumerated Indian reserves or Indian settlements. All of these statistics are available directly or indirectly (through the Alberta Bureau of Statistics) from Statistics Canada.

The method of projection simply scales the 1986 census population of each health unit by age group and by sex, according to a factor which relates the 1986 population of Alberta to that of 1988 estimates.

For a given sex, let $n_{ij}(86)$ equal the number of individuals in the i^{th} age group of the j^{th} health unit in 1986, and let $N_i(86)$ equal the number of individuals in the i^{th} age group in Alberta as a whole in 1986. For Chapter 1 and 2 there are eight age groups, and for chapter 3 and 4 there are ten. The corresponding numbers for 1988 are $n_{ij}(88)$ and $N_i(88)$. The problem is to estimate $n_{ij}(88)$ from $n_{ij}(86)$, $N_i(86)$ and $N_i(88)$. Defined by:

$$f_i(86,88) = \frac{N_i(88)}{N_i(86)}$$

Then $f_i(86,88)$ scales the 1986 Alberta population in the i^{th} age group to that of 1988 in the sense that $f_i(86,88)\ N_i(86) = N_i(88)$. The projected estimate of $n_{ij}(88)$ is then defined by:

$$n_{ij}(88) = f_i(86,88)\ n_{ij}(86)$$

Note that the same factor $f_i(86,88)$ is used for the i^{th} age group for all health units and so the assumption has been made that there has been a uniform rate of growth (or decline) common to all health units.

APPENDIX B

TECHNIQUES OF AGE STANDARDIZATION

In this section the standardization methods and statistical techniques used in the report are described. The discussion applies to both live birth rates and death rates of 1988. For concreteness the discussion will be phrased in terms of death rates.

As in Appendix A, let n_{ij} equal the individuals in the i^{th} age group of the jth health unit (for a given sex and year) and let d_{ij} be the corresponding number of deaths (for a given cause). Summing n_{ij} and d_{ij} over the index j (that is, over all health units) results in the number of individuals and deaths in the i^{th} age group in Alberta as a whole, denoted by N_i and d_j, respectively. The total number of Albertans and the total number of deaths is obtained by summing N_i and d_i over the index i, and will be denoted by N and d, respectively.

The death rate for the i^{th} age group and j^{th} health unit is defined by:

$$r_{ij} = \frac{d_{ij}}{n_{ij}}$$

and the corresponding rate for Alberta defined by:

$$R_i = \frac{D_i}{N_i}$$

The standard error of r_{ij} may be estimated(7) by:

$$SE(r_{ij}) = \frac{d_{ij}^{1/2}}{n_{ij}}$$

and a 95% confidence interval constructed from

$$r_{ij} + 1.96\ SE(r_{ij})$$

Formulas are similarly defined for R_i.

The age-standardized death rate for the j^{th} health unit, standardized to the Alberta population, is defined by:

$$sdr_j = \Sigma_i\ W_i\ r_{ij}$$

where

$$W_i = \frac{N_i}{N}$$

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7 Cheng, C.L. 1984. The Life Table and Its Applications. Malagbar: Krieger

Consequently, sdr_j is a weighted average of age-specific death rates for the j^{th} health unit, where the weights W_i are determined by the Alberta age distribution.

The standard error of sdr_j is defined by:

$$SE(sdrj) = (\Sigma_i [W_i SE(r_{ij})]^2)^{1/2}$$

Since age-standardization is according to the Alberta population, the age-standardized death rate for Alberta, given by:

$$SDR = \Sigma_i W_i R_i$$

simplifies to

$$SDR = \frac{D}{N}$$

which is usually referred to as the crude death rate. From an earlier formula,

$$SE(SDR) = \frac{D^{1/2}}{N}$$

A test of the hypothesis that the standardized rate for the jth health unit differs from the Alberta rate may be based on Z - statistic:

$$Z = \frac{sdr_j - SDR}{(SE(sdr_j)^2 + SE(SDR)^2)^{1/2}}$$

For the (one-sided) hypothesis that sdr_j is greater than SDR, the test is significant (at the 5% level) if

$$Z \geqslant 1.64$$